West Chester
STATE COLLEGE

UNDERGRADUATE CATALOG

1981 • 1982

ACADEMIC CALENDAR 1981-82

FALL SEMESTER 1981

September 8-9,	Late Scheduling
Tuesday, Wednesday	Faculty Meetings (as per departmental announcements)
September 10, Thursday	Classes begin
November 26, Thursday	Thanksgiving Recess begins (8:00 a.m.)
November 30, Monday	Thanksgiving Recess ends (8:00 a.m.)
December 17-23	Examination Period
December 19, Saturday	Commencement
December 23, Wednesday	Fall Semester ends (close of classes)

SPRING SEMESTER 1982

January 25, Monday	Late Scheduling. Classes begin (4:00 p.m.)
January 26, Tuesday	Classes begin — Day Courses
March 5, Friday	Mid-term recess begins (close of classes)
March 15, Monday	Mid-term recess ends (8:00 a.m.)
April 9, Friday	Spring break begins (8:00 a.m.)
April 12, Monday	Spring break ends (8:00 a.m.)
May 15-21	Examination period
May 21, Friday	Spring Semester ends (close of classes)
May 22, Saturday	Commencement

SUMMER SESSIONS 1982

Pre Session	Monday, June 7 - Friday, June 25
Regular Session	Monday, June 28 - Friday, August 6
Post Session	Monday, August 9 - Friday, August 27

WEST CHESTER STATE COLLEGE

UNDERGRADUATE CATALOG

1981 - 1982

West Chester State College is accredited by The Middle States Association of Colleges and Secondary Schools, The National Council for Accreditation of Teacher Education, The American Association for Health, Physical Education, and Recreation, The National Athletic Training Association, The National Association of Schools of Music, The Council on Social Work Education, The National League for Nursing, and The American Chemical Society. West Chester State College is a member of The Council of Graduate Schools in the United States.

West Chester State College is committed to a policy of non-discrimination in compliance with all applicable Federal and State statutes. Education programs, activities, and employment at the college are provided to individuals without regard to marital status, race, color, national origin, sex, sexual orientation, age, or religious creed. In addition, the college endeavors to remove any barriers and to provide opportunity for education and employment of handicapped persons. This policy of non-discrimination applies to all students, employees, applicants for admission and employment, and to all participants in college-sponsored activities. Inquiries regarding compliance with this policy may be directed to Ms. Teres E. Scott-Myers, Director of Affirmative Action, Philips Memorial Hall, West Chester State College, telephone (215) 436-2838.

The provisions of this bulletin are not to be regarded as an irrevocable contract between the student and the college. West Chester State College reserves the right to change any provisions or requirements at any time.

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UNDERGRADUATE PROGRAMS AT WEST CHESTER STATE COLLEGE

ASSOCIATE OF ARTS IN LIBERAL STUDIES

BACHELOR OF ARTS

American Studies
Anthropology
Art
Biology
Economics
Engineering, 3-2 Program
Foreign Languages
  French Russian
  German Spanish
  Latin
Geography
History
Literature (English)
Mathematics
Mathematics-Computer Science
Music
Philosophy
Philosophy-Religion
Physics
Political Science
Political Science—Public Administration
Psychology
Social Work
Sociology
Speech Communication
Theatre Arts

BACHELOR OF MUSIC

BACHELOR OF SCIENCE

Accounting
Biology
Business
  General Business
  Management
  Marketing
Chemistry
Chemistry-Biology
Chemistry-Geology
Clinical Chemistry
Computer and Information Sciences
Criminal Justice
Dental Hygiene, 2 + 2 Program
Earth Science
Economics
Forensic Chemistry
Health and Physical Education—Student Designed Concentration
Public Health
Public Health-Environmental Health

BACHELOR OF SCIENCE IN EDUCATION

Early Childhood Education
Elementary Education
Health
Health and Physical Education
Music Education
Secondary Education
  Biology
  Chemistry
  Communications
  Earth and Space Sciences
  English
  Foreign Languages
    French German Latin
    Spanish Russian
  General Science
  Mathematics
  Physics
  Social Studies, Comprehensive
    Anthropology
    Geography
    History
    Political Science
    Sociology
  Special Education
  Speech Pathology

BACHELOR OF SCIENCE IN NURSING

CERTIFICATE PROGRAMS

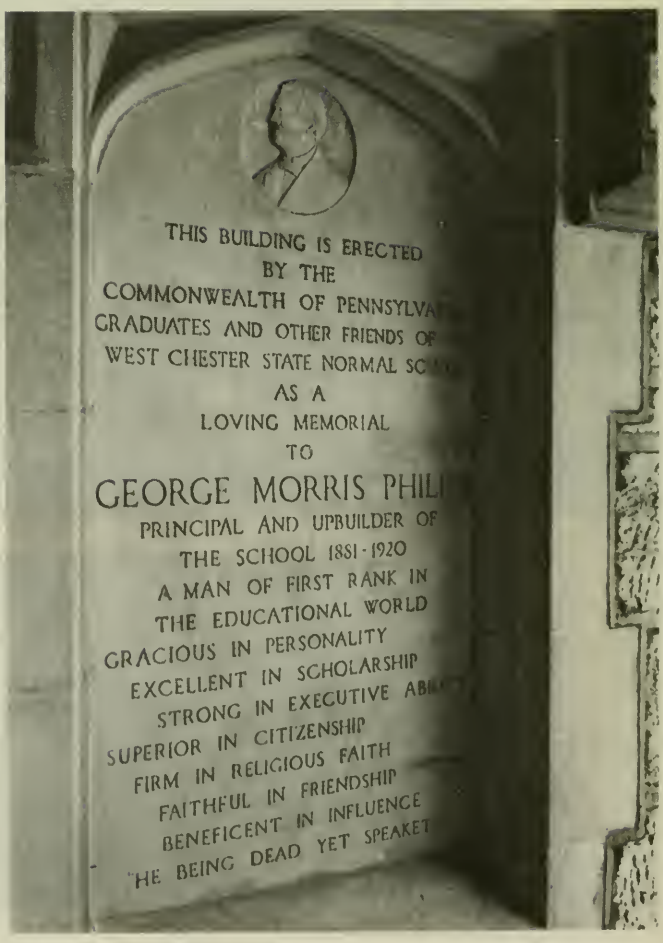
Athletic Coaching
Athletic Training
Ethnic Studies
Latin American Studies
Outdoor Recreational Pursuits
Russian Studies
Women's Studies

CERTIFICATION PROGRAMS AT WEST CHESTER

Driver Education and Safe Living
Environmental (Outdoor) Education

CONTINUING EDUCATION AT WEST CHESTER

In addition to the degree and certification programs listed above, West Chester offers a variety of courses for non-degree students seeking vocational advancement or personal enrichment. Further details are available from the Continuing Education and Evening Studies Office, Room 151, Learning Research Center.


THIS BUILDING IS ERECTED
BY THE
COMMONWEALTH OF PENNSYLVA
GRADUATES AND OTHER FRIENDS OF
WEST CHESTER STATE NORMAL SC
AS A
LOVING MEMORIAL
TO
GEORGE MORRIS PHILI
PRINCIPAL AND UPBUILDER OF
THE SCHOOL 1851-1920
A MAN OF FIRST RANK IN
THE EDUCATIONAL WORLD
GRACIOUS IN PERSONALITY
EXCELLENT IN SCHOLARSHIP
STRONG IN EXECUTIVE ABI
SUPERIOR IN CITIZENSHIP
FIRM IN RELIGIOUS FAITH
FAITHFUL IN FRIENDSHIP
BENEFICENT IN INFLUENCE
"HE BEING DEAD YET SPEAKET

INTRODUCING WEST CHESTER

Quality education at a reasonable price . . . this is the goal of West Chester State College, one of the largest of the fourteen institutions of higher learning owned and maintained by the Commonwealth of Pennsylvania. A comprehensive and multi-purpose college, West Chester serves individuals of all ages offering a variety of programs to fill their educational needs.

Listed in detail on page 4, these encompass liberal arts, science programs, teacher training and certification, preparation for advanced study in fields such as medicine and law, education for specific professions, and continuing education.

Total enrollment at West Chester includes about 6,000 full-time undergraduate students, about 1,200 part-time undergraduates, and nearly 1,500 graduate students. While most of these are recent high school graduates preparing for career objectives, many others are older individuals including veterans and homemakers who either never before had the opportunity for a college education or whose schooling was interrupted.

While the school's primary function is the education of Pennsylvania residents, high quality students from other states and foreign countries are welcome. West Chester's student body represents a cross section of many ethnic, racial, and religious groups and includes students from all economic levels.

Like the world around it, West Chester State College is constantly changing and growing. The school continues to broaden and modify the nature and number of its programs to reflect the needs of its students in their endeavor to prepare themselves for success and fulfillment in life.

Philosopy of the College

West Chester State College is dedicated to the student: here each person can develop the capacity to understand the intellectual, social, cultural, and physical environments in which he or she lives. We strive to promote critical thinking, clear and effective expression, and creativity. In addition, we attempt to create an atmosphere in which each student can develop a sense of his or her distinctive identity, and, at the same time, a sense of community and humanity. In our teaching, research, and community service activities, we respond to the changing needs of society, and we seek to prepare students to serve effectively in their chosen professions and to lead lives that will be creative, stimulating, and satisfying.

History of the College

Although its founding year is 1871, the college in fact has deeper roots tracing from the West Chester Academy, a private, state-aided school which existed from 1812 to 1869. The academy enjoyed strong support from the highly intellectual Chester County Society of the pre-Civil War decades. It was recognized as one of Pennsylvania's leading preparatory schools, and its experience in teacher-training laid the groundwork for the normal school years that were to follow.

As the state began to take increasing responsibility for public education, the academy was transformed into West Chester State Normal School, still privately owned but state-certified. The normal school admitted its first class of 160 students on September 25, 1871. In 1913 West Chester became the first of the normal schools to be owned outright by the Commonwealth.

West Chester became West Chester State Teachers College in 1927 when Pennsylvania initiated a four-year program of teacher education. In 1960, as the Commonwealth paved the way for liberal arts programs in its college system, West Chester was renamed West Chester State College, and two years later introduced the liberal arts program which turned the one-time academy into a comprehensive college.

Location of the College

West Chester State College is in West Chester, a town which has been the seat of government in Chester County since 1786. With a population of about 20,000, the borough proper is small enough to have the pleasant aspects of a tree-shaded American town, large enough to contain essential services and the substance of a vigorous community, and old enough to give the student first-hand touch with America's early history.

Students may walk to West Chester's many churches. The town has excellent stores and shops and a fine hospital. In the heart of town is its courthouse, a classical revival building designed in the 1840's by Thomas U. Walter, one of the architects for the Capitol in Washington, D.C. West Chester was settled in the early 18th century, principally by members of the Society of Friends; charming traces of their culture remain in the community.

West Chester today is part of the rapidly growing suburban complex surrounding Philadelphia and offers interesting opportunities for the study of local, county, and regional government in a period of change and growth.

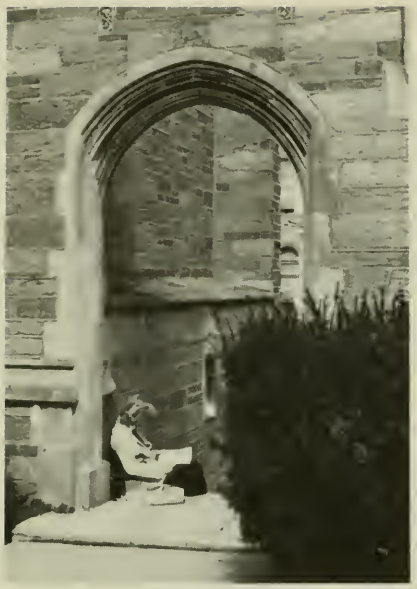
Philadelphia is 25 miles to the east and Wilmington 15 miles to the south, putting the libraries, museums, and other cultural and historical resources of both cities in easy reach. Valley Forge, the Brandywine Battlefield, Longwood Gardens, and other historical attractions are near West Chester.

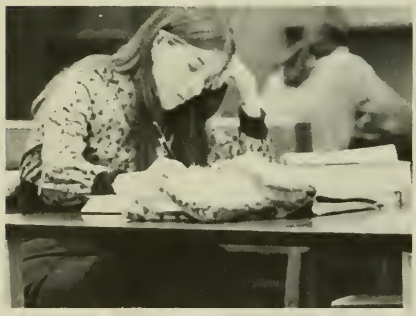
How to Reach West Chester

The Borough of West Chester is easily accessible from all directions both by car and public transportation. Route 3, the West Chester Pike, leads directly into town from center-city Philadelphia. From the Pennsylvania Turnpike, motorists traveling west should take Route 202 south from the Valley Forge Interchange while those traveling east can arrive via Route 100 south from the Downingtown Interchange. From the south, Route 202 from Wilmington and Routes 100 and 52 from U.S. Route 1 all lead to West Chester.

Public transportation includes SEPTA buses which run from the 69th Street Terminal in Philadelphia into the center of town and the Penn Central Railroad which operates a limited schedule from Philadelphia's 30th Street and Suburban Stations to West Chester.

Information on public transportation and carpooling is available from the Office of Off-Campus Life, Room 226, Sykes College Union Building.





ACADEMIC AFFAIRS

Undergraduate Programs

West Chester State College offers teaching certification programs, local certificate programs, and programs of study leading to the degree of Associate of Arts in Liberal Studies, Bachelor of Arts, Bachelor of Music, Bachelor of Science in Education and Bachelor of Science. These are listed on page 4. Programs of study at the graduate level are also available. These are listed briefly on page 17 and are described in detail in the college bulletin of graduate studies.

Interdisciplinary Programs and Offerings

Among West Chester interdisciplinary programs is one which leads to the bachelor's degree and others which provide transcript recognition. They are

American Studies — Bachelor of Arts
Ethnic Studies — Transcript recognition
Latin American Studies — Transcript recognition
Russian Studies — Transcript recognition
Women's Studies — Transcript recognition

Pre-Professional Study and Advisement

West Chester State College recognizes that some students will select a career goal which will require pursuit of an academic degree after the baccalaureate, either in a graduate school or at a professional school. Students with such goals are encouraged to discuss them with appropriate members of the faculty.

Pre-Law. Students who are contemplating going on to law school should take part in the pre-law advisory program, conducted by the Department of Government and Planning, and select major and elective courses which will provide a sound foundation for later studies in law school. The program of study pursued by the pre-law student will depend in part upon the interests of the student and upon the student's breadth of competence in oral and written communication. Pre-law students may be found in a variety of major fields of study. They are encouraged to participate in the Law Club.

Pre-Theology. Pre-seminary students tend to major in Religious Studies under the auspices of the Department of Philosophy but select courses from a wide variety of fields of study in order to be better prepared to cope with the variety of secular problems which they will confront in their chosen calling. Students interested in post-graduate studies in theology and religious studies should work out their programs of study with the Department of Philosophy.

Pre-Health. Students interested in graduate studies in one of the health professions (dentistry, medicine, optometry, osteopathy, veterinary medicine) are encouraged to apply for admission to the pre-professional program which is supervised by members of the Departments of Biology and Chemistry. More about this program may be found under the pre-professional listing in the section on Programs of Study and Course Offerings later in this catalog.

Student Teaching

Student teaching is to be taken in the seventh or eighth semester and normally culminates the professional experience in pre-service preparation for teaching. Students are required to file applications for student teaching one year prior to their student-teaching semester. Regular meetings for student-teaching registration are scheduled annually early in the semester. Prospective student teachers must attend one of these meetings.

Students must do their teaching in stations in school areas where the college holds a contract for student teachers.

To be eligible for student teaching, candidates must have senior standing (96 semester hours) and a cumulative index of 2.00 (C) or higher and should have completed all course work required in at least the first six semesters and satisfied competencies for the degree. Criteria for student teaching approval occasionally change. Students should contact departments for requirements.

National Teacher Examination

The college provides an annual opportunity for students to take the National Teacher Examination. Details may be secured from the Career Development Center.

Teaching Certificates

Instructional I Certificate. A student who satisfactorily completes one of the college's teacher education curricula receives his or her degree from the college and qualifies for an Instructional I Certificate, which is issued by the Pennsylvania Department of Education. This certificate is valid for three years of teaching in Pennsylvania.

Instructional II Certificate. This certificate requires three years of successful teaching in Pennsylvania under the Instructional I Certificate and the satisfactory completion of 24 semester hours of additional work of collegiate grade, completed after issuance of the baccalaureate degree. This certificate is a permanent license to teach in Pennsylvania.

All or part of the educational requirements for this credential may be obtained through approved in-service programs.

Application forms and information about certification are available from the Certification Office in the School of Education.

Additional subject areas may be obtained by completing requirements for that area. Consult the department in which you seek certification for information and an evaluation of your credits.

College graduates who wish to obtain teaching certification should consult with the School of Education.

Marine Science Consortium

West Chester, along with 14 other colleges and universities, provides opportunities for field studies in marine sciences at Wallops Island, Virginia. Undergraduate and graduate courses are given each summer in five three week sessions. The consortium offers courses in a broad area of the marine sciences. Some recent offerings include: marine biology, marine ecology, wetlands ecology, coastal vegetation, mammals of the coastal ecosystem, marine microbiology, marine botany, and marine invertebrates. Also offered are courses in wildlife photography, ornithology and a very successful art workshop. During fall and spring semesters field trips to the station are taken by classes in biology and earth sciences. For more information, consult either the Department of Biology or the Department of Earth Sciences.

Overseas Study

The Junior Year Abroad Program, sponsored by the college, makes it possible for interested students to spend one or more semesters in France. Those interested in the French language pursue two semesters at the University of Montpellier. Students with interests in other areas of French life and culture may develop, with their departments, independent study programs or projects which can be facilitated by the West Chester faculty member in residence in Montpellier. See Department of Foreign Languages for details.

The Consortium of Pennsylvania State Colleges sponsors an annual summer studies program conducted in English in Salzburg, Austria. Periodically, several of the schools offer field-study courses which take place in Europe or other overseas locations.

National Student Exchange Program

West Chester is one of approximately 50 American colleges and universities, ranging from the University of Hawaii at Manoa to the Universities of Maine and South Florida, which participate in the National Student Exchange Program. The project gives students an opportunity to widen their cultural and academic horizons through a semester or a year of study in another part of the United States without paying out-of-state tuition fees or incurring such complications as credit transfers. The exchange usually takes place during the sophomore or junior years so that returning students may share their experiences with students on the West Chester campus. In order to qualify for the program, applicants must be full-time students with a 2.5 grade point average. The annual recruitment program takes place during the fall semester with placement for the following school year occurring midway through the spring semester.

Internships

A number of departments offer the opportunity for internships in which students may be employed in their field of interest for college credit. Among the departments at West Chester with internship programs are American Studies, Chemistry, English, Government and

Planning, Health, History, Physical Education, Psychology and Speech Communication and Theatre. Additional information is available under the various department listings and from the departments.

The Center for Academic Information and Advising

The Center for Academic Information and Advising, located in the Learning Research Center, Room 164, provides the following services for an exploratory major (undeclared major) as well as for non-degree and part-time students who have not yet declared a major:

advisement at the time of preregistration;
information regarding various programs offered by the college;
guidance in and instructions for declaring a major; and
interpretation of college, school and department regulations, rules and requirements.

The center also makes information regarding college services available to late afternoon and evening students. For more information call (215) 436-3505.

Women's Center

The increasing number of women students entering West Chester State College from high school or returning after some years in the home or job world necessitates a special center devoted to their particular problems. This is the major concern of the Women's Center. Located in the Learning and Research Center (Room 151), the Women's Center provides a lounge area for conversation, study, peer advising, special interest programs (lectures, films, etc.). For more information call (215) 436-2122.

The Women's Center runs a Drop-in Center for three to six-year-old children of West Chester State College students. The childen are cared for during the parent's class time. The center is located in the Learning and Research Center (Room G14). There is no charge for this service. For further information call (215) 436-2122.

Adult and Continuing Education

West Chester State College is concerned about the educational needs of everyone beyond compulsory school age who is interested in educational opportunities on either a full-time or part-time basis. This includes individuals who can be served during the regular college schedule and those who require different and convenient hours and ways to continue their education.

Persons interested in taking advantage of the various opportunities available through continuing education are enrolled in educational programs for a variety of reasons. They may be pursuing an associate, baccalaureate or master's degree, upgrading skills, or seeking personal and professional growth and enrichment.

Participants also represent a wide range of age, experience, and economic status. They include recent high school graduates who are unable to attend college full-time, older students who return to college or enroll for the first time, employed individuals looking for advancement or a change in career, and many who wish to broaden their personal horizons through study.

West Chester's Adult and Continuing Education Program serves an ever widening community with an increasing variety of credit and

non-credit programs and special activities designed to meet individual and organizational needs. Current programs include:

(1) A wide variety of undergraduate college credit courses are offered during the evening for persons wishing to continue their education on a part-time basis. These courses are presently offered by the college departments and are creditable toward a regular degree when proper criteria and requirements are satisfied. Requirements for undergraduate evening courses are the same as those for the regular academic program. Any reference or inquiry should be directed to: Office of Adult and Continuing Education, Room 139, Learning Research Center, West Chester State College, West Chester, Pennsylvania 19380 (215) 436-2811.

(2) Non-college credit studies and activities are accomplished in terms of a Continuing Education Unit (CEU) which operates under the ratio of one CEU for each ten (10) contact hours. These non-credit programs are scheduled during the year to serve a greater number of individuals and organizations with more diversified programs. Admission is largely on the basis of interest, and work is ungraded but is recognized by special certificates designating CEU's earned.

(3) In-service courses which may carry graduate credit, in-service credit, or both are also offered by the college. In-service courses in teaching require the college and one or more intermediate units to cooperate in sponsorship. For information or assistance in non-credit and in-service courses contact: Adult and Continuing Education Office, Learning Research Center, Room 139, (215) 436-2833.

(4) Workshops, seminars, conferences and institutes are offered by faculty and other organizations at West Chester State College. These activities may carry undergraduate or graduate credit, In-service credit, Continuing Education Units or no credit at all. For information about workshops, seminars, conferences and institutes, contact the Adult and Continuing Education Office, Learning Research Center, Room 139, (215) 436-3410.

The Adult and Continuing Education Program functions under the aegis of the Dean of Graduate and Continuing Studies.

Academic Development Program

Along with other colleges throughout the nation, West Chester has sought to meet its responsibilities to provide access for special admittance students; these are, in many instances, from lower-income families and from different cultural and ethnic backgrounds, whose educational opportunities and experiences have been restricted as a result of inequalities within our society. Other students present special needs, especially because of disabling conditions such as specific physical and/or learning impairments.

West Chester is thus responding to a range of special needs with its Academic Development Program; this includes an Act 101 component, whose students qualify because they come from lower income families. Through state legislation, under Act 101, the college is assisted in its more general attempt to provide special services to students admitted in the Academic Development Program. The latter has demonstrated that special admittance students can

succeed under the impetus of a specifically designed entry program and continued support services.

Facets of the program include academic preparation and general orientation to college during a nine week summer program, continued tutorial assistance and counseling support through the first two years and individualized attention to the social and career needs of participating students.

The program has grown steadily both in enrollment and in the potential of the nine week summer program. In addition to needed developmental courses in the basic skills of writing, reading and mathematics, students may earn further general education credit. Additional information may be obtained from the office of the Academic Development Program in the Francis Harvey Green Library, Room 131, (215) 436-2600.

Summer Sessions

West Chester offers programs for both undergraduates and graduates during summer sessions.

Summer session catalogs, containing the course schedules, may be obtained from the director of summer sessions (for undergraduate studies) and the dean of graduate studies (for graduate studies).

Veterans' Affairs

Under the provisions of Title 38, West Chester State College is an accredited college for the education of veterans. The college cooperates with the Veterans Administration to see that honorably separated or discharged veterans receive every consideration consistent with either degree or non-degree admission standards.

All veterans, certain dependents of disabled or deceased veterans, and war orphans who wish to obtain educational benefits under the appropriate public laws must register with the Office of Veterans' Affairs at college registrations. Veterans must renew their registration with this office at the beginning of each subsequent semester and each summer session. The Veterans Administration requires students who are veterans to schedule at least 12 s.h. per semester in order to receive full benefits under the G.I. bill.

A representative of the Veterans Administration is in the Veterans' Affairs Office part-time, counseling and acting as liaison between students and the Veterans' Affairs Office in financial and other matters.

The Veterans' Affairs Office also advises students on Selective Service matters.

International Education

The general objectives of West Chester's program are to promote interest in international studies and in the analysis of America and ourselves as we fit into the world community. The Office of International Education, located in the Old Library, has on file opportunities for study throughout the world. It develops a program in Austria each summer and promotes extensive study abroad for majors in Spanish, French, and German and the office administers a program for waiver of fees for foreign students, publishes a newslet-

ter, brings speakers and exhibits to the campus, and reviews the laws related to foreign students and international education. It has provided the opportunity for students to study conversational Chinese, Portugese, Japanese, Hebrew, Polish, Vietnamese, Persian, and Greek. It has recruited faculty members to teach abroad. The office has represented the college in the Pennsylvania Consortium for International Education, and has helped to complete reports for funding of projects in India, Pakistan, and Egypt. The American Association of State Colleges and Universities has cited West Chester for effective integration of foreign students into its curriculum. In 1980 seventy-five foreign students were enrolled on campus. In the past five years over two hundred West Chester students have participated in study programs in other countries.

Armed Services ROC and ROTC Programs

The college, with the approval of the Board of Trustees, permits West Chester students enrolled in the Armed Services Reserve Officer Candidate Program (ROC) to receive six semester hours of baccalaureate credit upon successful completion and certification of ROC military requirements. Such credits are classified as free elective transfer credits. Depending on the status of a student's program at the time of ROC credit transfer, these credits will be counted toward, or in excess of, the 128 credits required for a baccalaureate degree.

ROC programs are contingent upon successful completion of military requirements during vacation and the award of a college degree before being granted the service commission. The programs cover the Navy's Basic and Advanced Reserve Officer Candidate courses and the Marine Corps' Junior and Senior Platoon Leadership courses.

The college in similar fashion permits students enrolled in a Reserve Officers Training Program (ROTC) to receive six semester hours of baccalaureate credit upon successful completion of the ROTC program. An Army ROTC training unit is available in the area, and West Chester students may receive part of their ROTC training on campus. Students seeking Air Force ROTC training may receive it from a training unit stationed in Philadelphia at St. Joseph's University. Further information is available from the dean of academic services and special programs.

Graduate Studies

West Chester's graduate program, introduced in 1959, offers study leading to Master of Education, Master of Arts, Master of Science, and Master of Music degrees. West Chester schedules its graduate courses during the fall and spring semesters in the late afternoon and evening. It is possible to pursue full-time graduate programs during the academic year and during summer sessions.

The following graduate programs are offered:

Certification and/or Master of Education
Biology
Counselor Education
Driver Education and Safe Living (Certification only)
Elementary Education
English
French
Geography
German
Health
Health and Physical Education
Industrial Media Education
Latin
Mathematics
Reading
Secondary Education
Social Science
Concentrations in:
Geography
History
Spanish
Special Education
Teaching the Emotionally Disturbed (Certification only)

Master of Arts
Biology
English
French
Geography
History
Mathematics
Music
Philosophy
Physical Science
Psychology
Social Science
Concentrations in:
Anthropology
Geography
History
Political Science
Psychology
Sociology
Spanish
Speech Pathology & Audiology
Teaching English as Second Language

Master of Music
Music Education
Music Theory or Composition
Performance

Master of Science
Administration
Chemistry
Computer Science
Counselor Education
Criminal Justice
Educational Research
Health
Health and Physical Education
Instructional Media

Graduate catalogs and further information are available from the Office of Graduate and Continuing Studies.

(At West Chester State College, the master's degree is required for those seeking certification in counselor education.)

CAMPUS AND FACILITIES

Description of the Campus

The college has a land area of 385 acres. North campus, an expansion of the original campus, occupies 94 acres at the southern boundaries of the Borough of West Chester. South campus, which came into full use in 1970, is a 291-acre expanse of the gently rolling countryside which Andrew Wyeth has defined in his landscapes of Chester County.

Fronting on South New street 3/4 miles south of the original college, south campus contains the massive Health and Physical Education Center, which has won national acclaim for the quality and extent of its teaching, performance, and research facilities. John A. Farrell Stadium, playing and practice fields, and tennis courts surround the center. Included in the open areas is a stretch of natural forest, part of which has been conserved as a resource for the natural sciences.

Architecturally, north campus combines late 19th century, collegiate Gothic, and contemporary styles. Three of the college's green-hued serpentine stone buildings, which have given West Chester a unique character for many decades, are still in use. The college is also known for its magnificent old trees.

A massive building program in the last decade produced a number of major facilities and utilities which equip the college well for the needs of modern education. The Learning and Research Center, the Francis Harvey Green Library, Mitchell Hall (Fine Arts), and the Schmucker Science Center are major additions, along with six high-rise residence halls which span the western side of north campus.

Computer Center

The Computer Center at West Chester serves a variety of users both on and off campus. Many of the college's administrative functions such as registration, grading, class lists, and billing depend heavily on computer operations.

More important, the college views the computer as a vital instructional and research tool. The Computer Center offers the student and faculty users time-shared, remote access to its computers. By the use of terminals scattered about the campus, more than 80 users can simultaneously be served "on-line" while others can operate in the "batch" mode.

The availability of the computer, 24 hours a day, 7 days a week, combined with the ready availability of terminals—even in the dorms—makes computing a handy tool for the West Chester community.

The academic functions are supported by the ready availability of scientific languages and software which can be easily used, even by those without computer experience. This includes a variety of statistical software.

In addition to the courses designed to teach computing, the computer as a tool is utilized in many other classes, and systems have also been developed by some departments for remedial and individual study programs.

Darlington Herbarium

The Darlington Herbarium, housed in Schmucker Science Center, is one of the highly regarded historical collections of dried plant specimens in the East. Among the 30,000 specimens are plants collected by such famous explorers and botanists as Captain John Fremont, Thomas Nuttall, Sir William Hooker, C. S. Rafinesque, and George Engelmann. More than 200 collectors from America's formative years of 1820 to 1850 are represented. The herbarium was the work of Dr. William Darlington (1782-1863), a member of the West Chester Cabinet of Science. Dr. Darlington was eminent in West Chester as a physician, educator, banker, businessman, historian, and botanist. His plants, however, were his first love. A state park has been established in northern California to preserve a rare species of insectivorous plant named in his honor—*Darlingtonia.*

Robert B. Gordon Natural Area for Environmental Studies

The college has conserved a large area of natural woodlands, located on south campus, and utilizes it for several kinds of outdoor studies in the natural sciences. Dedicated in 1973, the area was named for Robert B. Gordon, chairperson of the college's Department of Science from 1938 to 1963.

Francis Harvey Green Library

The Francis Harvey Green Library provides an excellent environment for study and research. With the opening of a new six-story addition in the fall of 1976, the library has added to and greatly expanded its facilities. The total complex will house one-half million books. It is furnished with a variety of seating areas including individual study carrels; faculty, graduate, and undergraduate studies and lounges; typing rooms; group studies; seminar rooms; and general reading areas.

The library has an increasingly important role in both teaching and research with its growing collection of nearly 400,000 volumes and subscriptions to over 2,450 journals. Augmenting this general collection with more than 300,000 titles is the micromedia collection including books, periodicals, newspapers and doctoral dissertations along with the facilities to read this material.

Other noteworthy collections can be found in the library complex. An extensive holding of courses of study and textbooks and a variety of audio-visual materials and equipment are held in the instructional materials center. Also available are separate collections for children's literature, government documents, and maps. The library is a selective depository for government documents and maps.

The Special Collections Room holds the Chester County Collection of scientific and historical books; the Normal Collection, publications by and about the faculty and alumni; the Ehinger Collection (a collection of historical books on physical education); the *Biographies of the Signers of the Declaration of Independence* by John Sanderson; and the Shakespeare Folios. The Philips Autographed Book Library is kept in a specially designed room in the Philips Memorial Building.

West Chester students may take advantage of the library's many services such as reference, computerized on-line literature searching, interlibrary loan, and photoduplication. To add to the cultural enrichment of the college community the library schedules informative displays and art exhibits throughout the year.

Music Library

The Music Library is part of the college library. Located in Swope Hall it houses an extensive collection of music, one of the largest of its kind in the Commonwealth of Pennsylvania. Its rapidly growing holdings includes nearly 20,000 scores (historical editions, collected works, opera, keyboard, vocal, and instrumental music) and more than 18,000 recordings (classical, folk, non-western, popular). Listening facilities for forty persons are available within the library.

Art Collections

The college's permanent art collection is made up primarily of gifts from interested art patrons, senior class purchases, and gifts from the alumni. The Intracollegiate Governmental Association's permanent art collection also has a growing collection of art works which are on display at the Francis Harvey Green Library, Philips Memorial, and other locations on campus. The IGA collection consists of a number of important works such as the water color, "Andress Place," by Andrew Wyeth.

Historical Properties

Among a number of historical properties which the college inherited from the Chester County Athenaeum, a literary society of the early 19th century, are letters to Anthony Wayne from George Washington, Israel Putnam, Benedict Arnold, and others. The college also possesses a mahogany clock which belonged to Benjamin Franklin and Anthony Wayne's telescope. Both were acquired from the West Chester Academy, forerunner to the present college.

Center for Governmental and Community Affairs

Established in 1979, with offices in Ruby Jones Hall, the center is a campus service to local governmental and community organizations for research, faculty services, workshop sponsorship, intern placements, and resource materials. Center activities focus on facilitating community/campus interchange in furthering the use of college resources in solutions to governmental and community problems.

Chester County Intermediate Unit Instructional Materials Service

West Chester is headquarters for this center, which makes more than 6,000 films available to the 138 schools it serves. The center also maintains the college film library, and promotes effective use of instructional materials and technology in the 12 affiliated school districts. College faculty and student teachers may make use of these facilities.

ADMISSION TO WEST CHESTER

West Chester State College evaluates its applicants on the basis of scholarship, character and potential for achievement in the programs to which they apply. The college operates on a rolling admissions policy so that applications are reviewed as received and applicants can be notified as quickly as possible of their status. Qualified students of any age as well as faculty and staff are welcomed at West Chester from all racial, religious, ethnic and socio-economic backgrounds. Studies may be pursued on a full or part-time basis.

General Requirements for Admission

1. Graduation, with satisfactory scholarship, from an approved secondary school or approval by the Credentials Evaluation Division of the Pennsylvania Department of Education.
2. Either a satisfactory score on the Scholastic Aptitude Test (SAT) of the College Entrance Examination Board (CEEB) or satisfactory scores on the tests given in the American College Testing Program (ACT).

How and When to Apply for Admission

For application materials please write or call the Office of Admissions, 110 West Rosedale Avenue, West Chester State College, West Chester, Pennsylvania 19380 (215/436-3411).

Freshman applicants for a fall semester are urged to begin the application process at the beginning of their senior year in high school. If spaces are available, the director of admissions will accept applications into the spring of the year in which admission is desired.

Applicants for a spring semester should submit an application by December 1.

Applicants for the nursing program are admitted only for the fall semester.

Candidates will receive notification from the director of admissions as soon as possible after decisions are reached. The applicants' secondary schools will also be notified.

Policy on Early Admission

In exceptional circumstances, students with superior academic qualifications and unusually mature personal development are admitted as freshmen upon completing their junior year of secondary school. Students who, in the opinion of their guidance counselor, warrant consideration for early admission may obtain more information from the director of admissions. The closing date for applications is June 1.

Arranging for Tests

Information about CEEB or ACT may be obtained from guidance counselors or the Office of Admissions.

Policy for Deficient Scores

Students whose scores are low on either the Verbal Section of the SAT Test or the English section of the ACT tests are required to take a basic English course.

Transfer Students

Students who have been enrolled in any postsecondary institution after graduation from high school and/or have attended West Chester State College as non-degree students must apply as transfer students. Students whose cumulative grade point average is less than 2.00 will not be considered for admission.

All application procedures must be completed by August 1 for a fall semester or December 1 for a spring semester. If enrollment limits are met before these dates, admissions will be closed.

Application Procedures for Students Transferring from an Accredited Institution

1. File an application, available from the Office of Admissions.
2. See that the director of admissions receives:
   a. Two official transcripts from all institutions attended, with honorable dismissal shown. If preliminary (incomplete) transcripts are submitted, the student must see that final transcripts are filed later.
   b. Mid-term grades, if the student is enrolled elsewhere in the fall semester and is applying to West Chester for the following spring semester.
3. If a student has completed less than 30 semester hours of credit he or she must supply SAT or ACT scores and a high school transcript.

If accepted, admission is contingent upon successful completion of current coursework with at least a C average as documented by transcripts of all work attempted or completed.

Transfer students should note the paragraph titled "Maintenance of Minimum Standards" in Academic Policies and Procedures.

Transcripts will be evaluated in accordance with the policies of the department to which the student seeks to be admitted. After the student has been admitted, he or she should work out an acceptable program of study in close consultation with an advisor in the major department.

College Policies for Students Transferring from a Non-Accredited Institution

Applicants from collegiate institutions (including community colleges and junior colleges) which are *not accredited* by one of the six regional associations in the United States will be considered for admission if the applicant's cumulative index is 2.00 (C) or better.

The evaluation of courses listed on transcripts from an institution not accredited by one of the six regional associations will be made by the student's major department in consultation with the faculty dean and the dean of academic services. All evaluations are subject to review by the vice-president for academic affairs and provost.

Admission Requirements in Specific Fields

Health and Physical Education. See Department of Physical Education for additional admissions requirements.

Mathematics. Mathematics majors must present three secondary units of mathematics, including algebra and plane geometry.

Music. See School of Music for additional admissions requirements.

Nursing. See Department of Nursing.

Pre-Professional Program. See Pre-Professional Program.

Social Work. See Department of Social Work.

Physical Examination Requirements

Applicants are not asked to submit a report of medical history until they have been accepted for admission. Upon acceptance, they will receive a form for the necessary health examination. Students who are handicapped or medically disabled may be requested to seek additional advising or counseling for career and course selections.

Physically Disabled Students

West Chester State College will make every effort to assure disabled students accessibility to all classes required for their program of study, and will endeavor to remove all obstacles to a fulfilling, comprehensive college experience. The office of admissions should be advised of any disabilities to assure suitable accommodations. For additional information, please contact the Office of Affirmative Action.

Associate Degrees

Students wishing to enroll as freshmen or transfer students in the Associate Degree Program should file an Associate Degree application, available from the Office of Admissions.

Second Baccalaureate Degree

An individual may pursue a second baccalaureate degree at West Chester State College after achieving the first baccalaureate degree either at West Chester or some other institution. Such an individual must apply for admission through the Office of Admissions as a transfer student.

Admission of College Graduates Seeking Certification

College graduates who wish to obtain teaching certification should consult with the School of Education and file an application for admission in the Office of Continuing Studies. Two complete official transcripts from each college attended must be sent to the Office of Continuing Studies.

Readmission of Former Students

Students who have withdrawn from West Chester for acceptable reasons may request an application for readmission from the Office

of Admissions. Those who have attended any institutions of higher learning since leaving West Chester must request those institutions to forward transcripts of their records to the Dean of Academic Services-Readmission Section, Room 143 Learning Research Center, West Chester State College, West Chester, Pennsylvania 19380.

Students intending to enroll in student teaching in the first semester of readmission must file an application for student teaching with the director of student teaching at least four months before their expected readmission.

All readmission applications are to be filed by August 1 for the fall semester or December 1 for the spring semester.

FEES AND EXPENSES

All Fees and Expenses are subject to change without notice.

Unless otherwise specified, fees are paid by check or money order payable to: Commonwealth of Pennsylvania. Your canceled check or money order record serves as your receipt.

Basic Undergraduate Fees for Legal Residents of Pennsylvania

Full-time students (between 12-18 semester hours)	$550.00 per semester
Extra charge for semester hours over 18	$ 46.00 per semester hour
Part-time students (11 semester hours or less)	$ 46.00 per semester hour

Basic Undergraduate Fees for Out-of-State Students

Full-time students (between 12-18 semester hours)	$965.00 per semester
Extra charge for semester hours over 18)	$ 81.00 per semester hour
Part-time students (11 semester hours or less)	$ 81.00 per semester hour

Housing Fee

The housing fee for students living in campus residence halls is $700 per semester and covers room ($415) and meals ($285) while the college is in session. The college charges commuting students $285 per semester for meals in the dining hall. These fees are subject to annual adjustment.

Community Center Fee

Students pay a community center fee based on the number of credits carried:

1 through 6 credits	$ 2.50 per semsester
7 through 9 credits	$ 5.00 per semester
10 credits or more	$10.00 per semester

The community center fee is not refundable.

Credit by Examination

A fee of $25.00 is paid at the Student Accounts Office, Financial Management Division, at the time the examination is scheduled.

Room Reservation Fee

A room reservation fee of $50 is required late in the spring semester, of all currently enrolled students who apply to the office of the associate deans of students for residence hall reservations for their next academic year. These applications must be made during a three-day period announced each spring in campus publications. The room reservation fee is not **refundable** but is credited to the housing fee for the following fall semester. The room reservation fee must be paid on the day of application by check or money order drawn to the "Commonwealth of Pennsylvania."

Financial Obligations

Students and their parents or guardians should observe that all fees and expenses are subject to change without notice and that, since the acceptance of a student is for a semester, financial obligations are for a semester.

The college may authorize deferred payments to upperclassmen who are full-time students, in good academic and financial standing at the college, and whose circumstances require an installment payment schedule. Requests for the installment payment schedule should be made in person at the Student Accounts Office. However, entering new students and transfer students are expected to make full payment of fees and expenses by the registration deadline unless they have supplementary scholarship aid.

Advance Payment of Housing and Basic Fees

All students are required to pay their housing and basic fees in advance of each semester. The college sends bills for these fees preceding each semester. If payment is not made within the stipulated period, the student is dropped from the admissions list or the rolls of the college; loses all privileges and priorities, including his room reservation; forfeits his room reservation fee and incurs a late fee.

Payments normally fall due each academic year as follows:

Fall semester	Early in July
Spring semester	Early in December

Any change in these dates will be shown on fall or spring semester invoices. Checks should be made payable to the "Commonwealth of Pennsylvania" and mailed to:

Students Accounts Office
Financial Management Division
Learning and Research Center
West Chester State College
West Chester, Pa. 19380

Application Fee for New Students

An application fee of $10 is required of all applicants. It is not refundable under any circumstances and is not credited to a student's account. The application fee must be paid by cashier's check or money order (not personal check).

Intention to Attend Fee

The student accepts an offer of admission by paying $75 as a guarantee of his intention to enter the college in the semester indicated. This fee is not refundable, but upon enrollment is credited

toward the basic fee. If, before enrollment, the college finds it necessary to revoke admission on the basis of an unsatisfactory health report from the student's physician, the acceptance fee will be refunded. The acceptance fee must also be paid by cashier's check or money order.

Damage Fee

Students are held responsible for damage, breakage, loss, or delayed return of college property and will be charged for any damage other than that occurring from normal use or deterioration. If a student damages college property while using an appliance not provided by the college, he is held liable for the repair of the college property.

Private Music Instruction Fees

Every student whose program requires private lessons pays a basic semester fee of $45 to cover all half-hour lessons in the curriculum. When hour lessons are required, the fee is $90. Elective and makeup lessons are billed at the rate of $45 per semester for each one-half hour of instruction per week.

Students pay no extra fee for the use of practice pianos. They are, however, charged at mid-semester for:

1. Pipe organ for practice, one period each weekday, $36 per semester.
2. Band or orchestra instruments, $6 rental per semester.

Infirmary Fee

An infirmary fee of $5 is required of all full-time undergraduate students. The infirmary fee is **not refundable**.

Miscellaneous Fees

Record transcript fee of $1 is charged to students for the second and all subsequent transcripts of records. The $1 fee also applies to those not currently enrolled.

Late registration fee of $25 is required of students scheduling and paying after the official registration deadline.

Late payment fee of $5 is charged for overdue payments required during the semester.

Transient lodging fee of $4.50 for double occupancy, $5.50 for single occupancy, is charged for overnight guests.

Additional housing fee of $5 per week is required when one person is permitted to occupy a double room. (This privilege is given only in summer sessions.)

Auditing fee. Students auditing a course are charged the part-time basic fee of $46 per semester hour if they are residents of Pennsylvania, or $81 per semester hour if out-of-state students.

Dishonored Check Fee of $10 applies to stopped payment check and checks drawn for insufficient funds. The late registration fee of $25 also applies as mentioned above.

Withdrawal Procedure

Students who wish to withdraw from the college after paying their semester fees must follow the official withdrawal procedure. This procedure begins in the Office of the Registrar, Learning and Research Center.

Policies on Repayments and Refunds

Refunds cannot be made after the close of the semester. Initiate refund requests immediately by contacting the Office of the Registrar and the Student Accounts Office in the Learning and Research Center.

Basic Fee Refunds

First through second week: Full-time students who withdraw completely forfeit $75.00

Part-time students who withdraw completely and students who drop courses are eligible for 80% refund.
Third week: All students—70% of basic fee refundable.
Fourth week: All students—60% of basic fee refundable.
Fifth week: All students—50% of basic fee refundable.
After fifth week: No refund on basic fee.

The community center fee is non-refundable.

The infirmary fee is non-refundable.

Housing Refunds

The $50.00 room deposits are not refundable. If a student registers as a resident student and changes to commuter status before the end of the sixth week of classes, he will be eligible for a one-half refund of his room rent. After the end of the sixth week of classes there is no refund on room rent.

Meal Refunds

The fee for meals may be refunded on a weekly prorated basis. Contact Student Accounts Office in the Learning and Research Center.

In cases of personal illness, certified by an attending physician, or for other reasons which may be approved by the Board of Trustees, the college will refund the portion of the housing and meal fees covering the number of weeks remaining.

Repayment of the application fee or acceptance fee will not be made under any circumstances.

Repayments will not be made to students who are temporarily or indefinitely suspended.

PLEASE REFER TO THE SUMMER UNDERGRADUATE CATALOG FOR SUMMER SESSION FEES AND POLICIES.

Billing Address Changes

If a student billing address changes during enrollment at the college, the new address must be given to the Student Accounts Office in the Learning and Research Center. This will avoid delayed delivery of registration materials and grades.

A change in domicile from out-of-state to Pennsylvania requires a notarized affidavit and supporting evidence. For information on this procedure, contact the Student Accounts Office at (215) 436-2552.

Determination of Legal Residence

A student who does not have a Pennsylvania domicile is classified as out-of-state and pays fees as a non-resident student. The amounts for the activity fees, room and meal charges, and costs of books and supplies, however, are the same as for students who are classified as Pennsylvania residents. Domicile is defined as the place where one intends to and does in fact permanently reside.

Determination of Pennsylvania domicile is made on the basis of documentary evidence, statements from disinterested persons, and the presumptions set forth below.

1. Continuous residence in Pennsylvania for a period of 12 months prior to registration creates a presumption of domicile.

2. A person attempting to establish domicile must have citizenship or proof of intention to become a citizen or must have been admitted to the United States on an Immigrant Visa.

3. A minor (i.e., person under 21) is presumed to have the domicile of parent(s) or a guardian.

4. A member of the Armed Forces who was domiciled in Pennsylvania immediately preceding entry into government service and who has continuously maintained Pennsylvania as a legal residence will be presumed to have a Pennsylvania domicile.

5. A student receiving a scholarship or grant dependent upon domicile from a state other than Pennsylvania is not domiciled in Pennsylvania.

Examples of factors which may provide convincing documentary evidence include purchase or lease of a permanent independent residence, payment of appropriate state and local taxes, transfer of bank accounts, stock, automobile, and other registered property to Pennsylvania, driver's license, agreement for permanent full-time employment, membership in organizations such as social, civic, political, athletic, or religious, voter's registration, statement of intention to reside indefinitely in Pennsylvania, statement from parent(s) or guardian setting forth facts to establish a minor's financial independence, and separate residence as documented by affidavit and/or copy of income tax return.

A student may challenge residence classification by filing a written petition with the Secretary of Education in Harrisburg where the decision on the challenge shall be final.

Delinquent Accounts

No student will be enrolled, graduated, or given a transcript of his record until all charges due at the particular time are paid.

Parking Fee

The college collects a parking fee of $20.00 per year from the students eligible to utilize on-campus parking facilities. For details, consult the automobile regulations which accompany the fall semester student bills.

Intracollegiate Governmental Association Fee

Student Government Fee. $35 per semester is collected from all full time undergraduate students, and $11 per semester from all undergraduate part-time students. This fee is administered through a cooperative organization under regulations approved by the Board of Trustees. It covers the cost of the extra- and co-curricular programs in such areas as athletics, various musical organizations, lectures, entertainment, and student publications. $1 represents government dues and will go to the Residence Hall Association (RHA) or Off Campus Student Association (OCSA) depending upon residency status. $1 goes to Commonwealth Association of Students (CAS).

The IGA fee must be paid promptly upon receipt of the bill, which covers the semester. Checks should be drawn to IGA and must be mailed with registration materials.

Identification Cards

All students—both part-time and full-time—must secure an identification (ID) card from IGA at a cost of $1, either during orientation or at the beginning of a semester. The charge for replacement of a lost card is $5.

Library Cards

The student ID card serves as a library card.

Graduation Fee

A graduation fee is required of all degree candidates. No degree will be granted until this fee is paid. The bill is presented when the student files Notice of Intention to Graduate. It must be paid to IGA by check or money order drawn to "Commencement Fund."

Gymnasium Uniforms

Men students in the B.S. in Health and Physical Education degree program are required to buy athletic and gym outfits in their first semester and again in their third semester.

Women Students in the B.S. in Health and Physical Education degree program must buy uniforms for their first semester. Order forms are sent to each applicant upon her acceptance by the college. A slight additional expenditure is required of all sophomores.

All other students are required to purchase a regulation gym outfit. For the women students this is a one-piece suit available at the College Bookstore. For men the outfit includes a pair of white shorts, a white T-shirt, white socks, and canvas gym shoes.

Special Costs for Nurses

At the end of their sophomore year, students in the B.S. in Nursing program must purchase uniforms. Throughout enrollment, students in this program must carry liability insurance.

FINANCIAL AID

The purpose of financial aid at West Chester State College is to provide financial assistance to students who can benefit from further education, but who cannot do so without such assistance. Financial assistance consists of gift aid in the form of scholarships or grants, and self-help aid in the form of employment or loans. The main responsibility for meeting educational expenses rests with the student and his or her family. Financial aid is a supplement to family contributions and is to be used for educational expenses.

Eligibility for financial aid, with the exception of some private scholarships, the Guaranteed Student Loan program, and the Parental Loan program, is based on demonstrated financial need. Family income, assets, family size, and number of family members attending postsecondary educational institutions influence the demonstrated financial need of the student.

All documents, correspondence, and conversations among the aid applicant, his or her family, and student aid officers are confidential and entitled to the protection ordinarily arising from a counseling relationship.

In order to apply for financial aid, the student must:

1. Be accepted for admission as at least a half-time student at West Chester State College, or, in the case of a student already attending the college, be enrolled and making satisfactory academic progress as at least a half-time degree student.
2. Submit the Financial Aid Application to the *Financial Aid Office, 103 Lawrence Center, West Chester State College, West Chester, PA 19380.* The application will be included with the admissions material sent to a student after he or she is formally accepted at West Chester State College. If a student does not receive this application, he or she should contact the Financial Aid Office. Returning students should obtain this application from the Financial Aid Office during the spring semester. *The deadline is May 1.*
3. Submit a PHEAA & BEOG Application to Harrisburg, PA before May 1. All students, regardless of state residency status, must complete this form in order to be considered for financial aid at West Chester State College. This application is the document which will be used to determine demonstrated financial need for the student.

4. Submit, in the case of a transfer student, a Financial Aid Transcript from all previously attended postsecondary educational institutions. This transcript may be obtained through the Financial Aid Office.
5. Apply for the state grant program in his or her state of legal residence.
6. Submit any other requested documentation concerning financial and family circumstances that may be requested by the Financial Aid Office, or any agency that administers financial assistance programs.

The submission of the above does not automatically entitle a student to receive financial aid. The Financial Aid Office follows the regulations established by the federal government in awarding aid. *It is necessary for students to apply for financial aid each academic year.*

Unless otherwise specified, requests for scholarships, grants, loans, and employment opportunities described in this catalog should be made to the Director of Financial Aid. Application forms for state and federal grants may be obtained from the Financial Aid Office at West Chester State College, and from the offices of most high school guidance counselors. Questions concerning financial aid may be directed to the *Financial Aid Office, 103 Lawrence Center, West Chester State College, West Chester, PA 19380. The telephone number is (215) 436-2627. Office hours are from 8:00AM to 12:00NOON, and from 1:00PM to 4:30PM, Monday through Friday.*

SAMPLE COLLEGE BUDGET (BASED ON 1980-81 FEES)
All fees subject to change.

	In State		Out of State
	On Campus	Commuter	On Campus
Basic Course Fees	$1,100	$1,100	$1,930
Room	830	1,150 (Commuting and Living Allowance)	830
Board	570		570
Sykes Student Center Fee	20	20	20
Student Government Fee (IGA)	70	70	70
Infirmary Fee	10	10	10
Books and Supplies	200	200	200
Personal	600	600	600
TOTAL	$3,400	$3,150	$4,230

Note: Books and supplies and personal expenses may vary from student to student. Students who are living off campus, but not with their parent(s), should use the same budget as an on campus student.

The following is a brief description of the financial aid programs available at West Chester State College.

College Work Study Program

Employment program involving part-time work on campus. Students are able to make a financial contribution toward the payment of their educational expenses while learning new skills and refining those they already possess. Application is made through the Application for Work Study and a PHEAA & BEOG Application must be filed. Deadline is May 1.

National Direct Student Loan

A loan program administered by the Financial Aid Office. Student must demonstrate financial need. The cumulative limit for borrowing as an undergraduate student is $6,000. The cumulative limit for borrowing as a graduate and undergraduate student is $12,000. The interest rate, for first time borrowers, is 4% and begins to accrue when repayment commences, 6 months after the student terminates his or her education. There are deferment privileges for students who enter the armed services, Peace Corps, or VISTA after graduation. There are cancellation privileges for special education teachers and teachers in certain school districts. Application is made through the Financial Aid Application and a PHEAA & BEOG Application must be filed. Deadline is May 1.

Guaranteed Student Loan

Also referred to as a bank loan, or a state loan guaranty. This loan program operates with the cooperation of private lenders (banks, credit unions, etc.). Dependent, undergraduate students may borrow up to $2,500 per academic year. Independent undergraduate students may borrow up to $3,000 per academic year. Graduate students may borrow up to $5,000 per academic year. The cumulative limit for dependent undergraduates is $12,500. The cumulative limit for independent undergraduates is $15,000. The cumulative limit for borrowing as a graduate and undergraduate student is $25,000. The interest rate, for first time borrowers, is 9% and begins to accrue when repayment commences, 6 months after the student terminates his or her education. There are deferment privileges for students who enter the Peace Corps, ACTION programs, or the Commissioned Corps of the Public Health Service. Applications are secured at the lending institution. Students should allow 6 weeks for processing.

Parental Loan Program

Loan program through a private lender. Parents may borrow up to $3,000 for each dependent student attending a postsecondary educational institution each academic year. The cumulative limit is $15,000 per dependent student. The interest rate is 9% and repayment commences 60 days after disbursement of the loan funds. Applications are secured at the lending institution.

Emergency Loans

WEST CHESTER STATE COLLEGE STUDENT EMERGENCY LOAN FUND. Students doing satisfactory academic work and needing funds to continue in the college may obtain short-term loans up to $100 from this fund. For more details, students should contact the IGA Bookstore.

ALUMNI STUDENT EMERGENCY LOAN FUND. The West Chester State College Alumni Association maintains a fund from which students in financial need may obtain loans. No interest is charged, although legal security is required. Applicants must have a satisfactory academic record. The loan amount is restricted to no more than $300. The loan must be repaid within 6 months. For more details, students should contact the Director of the Alumni Association.

Basic Educational Opportunity Grant

Also referred to as Basic Grant, BEOG, or Pell Grant. This is the federal grant program and all students are encouraged to apply for a

Basic Grant. Students receive notification of eligibility from Basic Grant in the form of a Student Eligibility Report, which must be submitted to the Financial Aid Office. Application can be made through the PHEAA & BEOG Application, the Basic Grant Application, the Financial Aid Form (FAF) or the Family Financial Statement (FFS). Deadline is March 15 of the following calendar year.

Supplemental Educational Opportunity Grant

A federally funded grant program administered by the Financial Aid Office. A student must demonstrate financial need and be an undergraduate. The maximum grant is $2,000 per academic year. Application is made through the Financial Aid Application and a PHEAA & BEOG Application must be filed. Deadline is May 1.

State Grants

PENNSYLVANIA HIGHER EDUCATION ASSISTANCE AGENCY (PHEAA) GRANT. The Commonwealth of Pennsylvania, through PHEAA, makes state grants available to students who demonstrate financial need, are full-time undergraduates, and are Pennsylvania residents. Application is made through the PHEAA & BEOG Application. Deadline is May 1.

NEW JERSEY TUITION AID GRANT (TAG). The State of New Jersey makes grants available to students who are full-time undergraduates attending West Chester State College and are residents of New Jersey. Application is made through the New Jersey Financial Aid Form (NEW JERSEY FAF). Deadline is March 15.

DELAWARE POSTSECONDARY SCHOLARSHIP FUND GRANT. The State of Delaware makes grants available to full-time students at West Chester State College who are Delaware residents. Application is made through the Financial Aid Form (FAF) and the Delaware Postsecondary Scholarship Fund must be indicated as a recipient (Code Number 0583). Deadline is April 30.

The Commonwealth of Pennsylvania has entered into reciprocal agreements with the following adjacent states: New Jersey, Delaware, West Virginia, and Ohio. Residents of these states who wish to attend West Chester State College are permitted to use state grants from their home states for educational expenses at West Chester. Some other states, not adjacent to Pennsylvania, may permit their residents to use state grants for attendance at West Chester State College. Students should contact the agency for higher education within their state for more information.

Nursing Students

NURSING STUDENT LOAN. Loan program funded by National Institutes of Health and administered by the Financial Aid Office. Loans are at 3% interest, and repayment commences 9 months after the student terminates his or her education. Application is made through the Financial Aid Application and a PHEAA & BEOG Application must be filed. Deadline is May 1.

NURSING STUDENT SCHOLARSHIP. Grants are available to nursing students. These grants are funded by National Institutes of Health and administered by the Financial Aid Office. Application is made through the Financial Aid Application and a PHEAA & BEOG Application must be filed. Deadline is May 1.

Law Enforcement Education Program Grants

Grants not to exceed $400 per semester are available to students who are eligible personnel of publicly funded law enforcement agencies of federal, county, municipal, and state government enrolled in or accepted for enrollment on a full or part-time basis in the "Criminal Justice Program" and who agree to remain in full-time criminal justice employment for the next two years. For more information, contact the Criminal Justice Department.

Scholarships and Awards

THE ALUMNI ASSOCIATION OF WEST CHESTER STATE COLLEGE SCHOLARSHIP FUND. A scholarship fund was established by the Alumni Association of West Chester State College in 1974 to benefit the students of West Chester State College. The criteria for selection are scholarship, leadership, character, and need. In addition, the applicant must be enrolled in the sophomore or junior year. Applications are available annually on the 1st of February from the director of financial aid or the executive director of the Alumni Association. The awards are made on Alumni Day each year and are applied to winners' course fees for the next academic year. A minimum of twenty-two scholarships are awarded each year, at least twenty for $100.00 and two for $250.00.

LAURY SAMUEL BROKENSHIRE SCHOLARSHIP. This $100 scholarship is presented annually as a memorial to Laury Brokenshire, '59, by his parents, Mr. and Mrs. James R. Brokenshire, of Reading. It is awarded to an outstanding junior class music student selected by the School of Music faculty.

CAVALCADE OF BANDS SCHOLARSHIP. This award is sponsored jointly by the Cavalcade of Bands Association and the School of Music. The recipient(s) must be admitted in good standing to the music program at West Chester State College and is selected by the Director of the winning band(s) in each category of the American and Yankee Conferences. The awards are determined annually. Normally one student from each of the four winning bands will be selected to receive a $1,000 tuitional scholarship.

ROBERT L. CARL MEMORIAL KEYBOARD SCHOLARSHIP. Two $250 scholarships are awarded to freshman keyboard majors, in honor of the late Robert L. Carl, former chairperson of the Department of Keyboard Music, who taught piano at the college from 1946 until 1971. Applications are made to the coordinator of the School of Music.

PAUL E. CARSON BAND SCHOLARSHIP. This award has been made possible by the generosity of Paul E. Carson, former Chairman of the Instrumental Department and a member of the college faculty for 28 years. Scholarships are to be awarded to incoming freshmen majoring in band instruments. The initial award, in 1980-81, will be in the amount of $400.

JUSTO B. BRAVO SCHOLARSHIP IN CHEMISTRY. A $500 award available to a full-time student majoring in chemistry. Applications are made to the Department of Chemistry.

GRACE COCHRAN RESEARCH ON WOMEN AWARD. An annual $100 award in each division, graduate and undergraduate, for the best research on women. The Award, sponsored by the Institute for Women, is given on Research on Women Day held in April

of each year. Dr. Cochran, an eminent teacher and scholar, graduated from the West Chester State Normal School in 1906.

DR. ROBERT E. DRAYER MEMORIAL AWARD. An annual award for the senior who graduates with the most distinguished record in history, in memory of Dr. Robert E. Drayer, assistant professor of history, who died in 1968. The Department of History selects the recipient.

FACULTY AWARD. A certificate presented annually to a graduating senior in the Department of Nursing who, in the opinion of the department faculty, demonstrates "outstanding ability and exceptional commitment to professional nursing."

FACULTY SCHOLARSHIP FUND. Annual awards of $200 each are made each May to undergraduate students. Awards are made on the basis of academic ability and financial need. Applications are made to the Faculty Scholarship Fund.

MIRIAM GOTTLIEB PIANO SCHOLARSHIP. This $100 award has been made possible through the generosity of Mrs. Miriam Gottlieb, who was a member of the college's Keyboard Department faculty from 1946 until her retirement in 1975.

ARTHUR E. JONES MEMORIAL SCHOLARSHIP. Talent in the vocal-choral area and scholarship are among considerations for this $700 annual award to a music student in remembrance of Dr. Arthur E. Jones, former chairman of choral music. To be eligible, a student must be a junior who has completed a course in choral conducting. The Department of Vocal and Choral Music selects the recipient.

WALKER HAMILTON, JR. MEMORIAL SCHOLARSHIP. As a memorial to Walker Hamilton, Jr., an associate professor of English who died in 1968, the Department of English annually makes an award to an academically superior English major. The recipient must have completed three years at West Chester.

DEPARTMENT OF PHYSICAL EDUCATION SCHOLARSHIP. Three $300 scholarships awarded to any sophomore, junior or senior student in health and physical education. Applications are made to the Department Chairperson, Physical Education Department.

FRITZ K. KREUGER MEMORIAL VOICE SCHOLARSHIP. Two $250 scholarships for freshman students who are vocalists in honor of the late Fritz K. Krueger, who taught in the Department of Vocal and Choral Music from 1961 until 1971. Applications are made to the coordinator of the School of Music.

LEWIS H. MARSHALL AWARD. An annual award to a senior in the Social and Behavioral Sciences whose leadership, professional promise, and academic achievement are outstanding. It is made available by the Chester County Association to Township Officials, and the awardee is selected by a committee of faculty selected from appropriate disciplines.

S. POWELL MIDDLETON MEMORIAL SCHOLARSHIP. An annual $300 award to a freshman music student for talent and achievement on an orchestral instrument. The award honors the former conductor of the College Symphony Orchestra who died in 1970.

LLOYD C. MITCHELL PIANO SCHOLARSHIP. This $250 scholarship was established in honor of Dr. Lloyd C. Mitchell upon his retirement in 1971 after 35 years service at the college, including 20 years as chairman of the Music Department and dean of the School of Music. It is awarded annually to a freshman music student selected by a piano faculty jury. Applications are made to the coordinator of the School of Music.

ROBERT M. MITTEN SCHOLARSHIP FOUNDATION. An annual $500 scholarship for a major in health and physical education, given in memory of Dr. Mitten, former professor of health and physical education and the college football coach, who died in 1972.

CLIFTON E. MORGAN MEMORIAL AWARD. Presented annually to a West Chester student as a memorial to a member of the Department of History, who died in 1974.

MICHAEL MOROCHOKO MEMORIAL PIANO AWARD. The Department of Keyboard Music presents a $300 scholarship annually to an outstanding junior music student majoring in piano as a memorial to Michael Morochoko, father of a former student.

MUSIC SOPHOMORE SCHOLARSHIP. Three $300 scholarships, given annually to music education sophomores. Criteria: College citizenship and musical performance. Applications are made to the coordinator of the School of Music.

NURSING SCHOLARSHIP PROGRAM. Scholarships not to exceed $2000 per academic year are available to assist students of exceptional financial need. These scholarships are for full time or half-time study in the Bachelor of Science Degree Program in Nursing.

HILLARY H. PARRY MEMORIAL SCHOLARSHIP. An annual $350 award to a junior music student, granted for scholarship, citizenship, and achievement in vocal study. The scholarship is in remembrance of a former teacher of voice.

PHI MU ALPHA, SINFONIA POWELL MIDDLETON AWARD. An annual $100 award in memory of S. Powell Middleton, presented by the Rho Sigma chapter of Phi Mu Alpha Sinfonia men; music fraternity. It is based on outstanding musicianship, scholarship, and character. Applications are made to the coordinator of the School of Music.

PRESSER SCHOLARSHIP. This is a grant of $1,000, consisting of $500 from the Theodore Presser Foundation and $500 from the School of Music, to be applied toward tuition in the student's senior year. It is awarded by the President of the college to the student majoring in music who achieved the highest cumulative GPA at the end of the junior year, having completed no less than 95 credits at West Chester State College. This student in his/her senior year will be known as the Presser Scholar, denoting a reward for excellence with the hope that the award will help the student not only financially but also in his/her future career.

WILLIAM PYLE PHILIPS SCHOLARSHIPS. Awarded annually to juniors and seniors who are natives of Chester County on the basis of demonstrated scholastic ability. Funds are available for approximately 20 scholarships to cover the basic fee. Application forms may be secured in the Office of Financial Aid.

DAVID M. SENSENIG MEMORIAL SCHOLARSHIP. $50 savings bonds given annually to two juniors with outstanding ability in mathematics. Dr. Sensenig was chairman of the Department of Mathematics from 1895 to 1908. The scholarship fund is administered by the Alumni Association of West Chester State College.

DR. AHMAD H. SHAMSEDDINE MEMORIAL AWARD. An annual award for an outstanding student in the field of business and economics, in memory of Dr. Ahmad H. Shamseddine, associate professor of economics, who died in 1971.

ANNE M. SCHAUB MEMORIAL SCHOLARSHIP. The Anne M. Schaub Memorial Scholarship is awarded annually to a second semester sophomore women's health and physical education major student. The amount of the scholarship is $300.00.

SCHOOL OF MUSIC FRESHMAN STRING SCHOLARSHIP. Two $250 tuition scholarships are awarded to incoming freshman students who are string majors.

SICO FOUNDATION SCHOLARSHIPS. Scholarships, in limited number, provided by the SICO Company are provided for four years of study at West Chester State College at a rate of $900 per year ($3,600 total vaue). High school students qualified for college admission or high school graduates who have not attended college on a full-time basis may compete for a SICO Foundation Scholarship when their legal residences are located in the state of Delaware, or in the area included in the counties of Adams, Berks, Chester, Cumberland, Dauphin, Delaware, Lancaster, Lebanon, and York in Pennsylvania, or in Cecil County, Maryland. A student attending the Shippensburg, Boyertown, Spring-Ford, or Williams Valley High Schools in Pennsylvania, or the Del-Mar High School in Delaware, whose residence is outside the aforementioned area is considered in the SICO Company service area and may apply for a scholarship. No distinction is made on the basis of sex, race, or religious belief.

SIGMA ALPHA IOTA LOIS ALT AWARD. The Epsilon Epsilon Chapter of this academic music fraternity for women offers yearly a $100 award honoring Lois W. Alt, a member of the Vocal/Choral Department faculty and a co-founder/advisor of the campus chapter. The award is based upon college leadership, high musical standards, and need.

GREG SMITH MEMORIAL SCHOLARSHIP. An annual scholarship of $100 presented by the baseball club in memory of a former baseball captain and president of the baseball club.

THE CHARLES S. SWOPE SCHOLARSHIP FOUNDATION. A Memorial Scholarship Trust Foundation established by the Swope family in memory of Dr. Charles S. Swope, who served as president of West Chester State College for a quarter of a century. In order to apply for the scholarship "the student must be enrolled in the junior year and have a desire to engage in the teaching profession." Application for the scholarship, which is awarded in the amount of $800 each, must be filed with the Trustee Committee on or before April 1 of each year. The selection is made by the committee during May, and scholarships commence in September. The number of scholarships which the Swope Foundation makes possible annually is in the range of ten to fifteen.

WRITING AWARD. A certificate presented annually to one junior and one senior nursing student who demonstrate "outstanding writing ability." The recipient is selected by the faculty of the department.

McCARTHY
HALL

STUDENT AFFAIRS

It is a conviction at West Chester that education is both an academic and a social process, and that the student community is not merely a housing adjunct but an intrinsic part of the college experience.

The administration holds that students should share the responsibility in governing this community and should have a voice in shaping and reexamining the objectives of the college.

West Chester students have a democratically constructed governing body for maintaining a mature and responsible student citizenry and for developing the various activities and programs which best serve their interests and needs. Through advisory and committee machinery, the administration, the faculty, and the student body seek to work together in behalf of the general welfare of the college.

Classification of Students

Students who attend West Chester State College are classified for administrative purposes into two categories.

(1) RESIDENT STUDENTS
These students live in residence halls operated by the college. Resident students are required to take meals in the dining hall.

(2) OFF-CAMPUS STUDENTS
This classification covers students who travel or commute to and from their legal residence as well as students who live away from the homes of their parents or legal guardians in a dwelling which is not supervised or approved by the college.

On-Campus Housing

The residence halls on the campus provide accommodations for approximately 3,100 resident students. These students cannot be guaranteed housing for their full four years.

Room Assignments—The Housing Office makes the room assignments for all students living in the residence halls. These assignments are made without regard to race, color, national origin, sex, sexual orientation, age or religious creed. Only individuals of the same sex will be assigned as roommates. Student rooms have basic furnishings for comfortable living and the students may make them more homelike with their own accessory additions. During orientation, students are informed about the services and equipment furnished by the college and those necessities which the student must supply for himself. Lounge and recreation areas, storage rooms, television, and a variety of other facilities and convenience provide a pleasant setting for student life.

Freshman Students. All freshmen—both men and women—who have been accepted as resident students have the opportunity to live in the college residence halls.

Transfer Students. Transfer students are admitted both as resident students and as commuting students. Those who have been admitted as commuting students and desire accommodations in residence halls may apply in the Housing Office to be placed on the waiting list. Priority is based on the date the application is received.

Married Students. The college has no housing facilities for married students during the regular sessions. Prior to registration, they will need to secure their own accommodations in the community.

Overnight Guests. If accommodations are available, a resident student may have an overnight guest on Fridays or Saturdays at a charge. Prior approval and registration must be secured from the resident director.

Policy for Withdrawals. Resident students must vacate their residence hall within 24 hours of completing the withdrawal form in the Office of the Registrar.

Off-Campus Housing

Students who choose to live in the community must secure thier own living accommodations. The office of Off-Campus Life (OCL) in 206 Sykes College Union Building will assist students in finding housing by providing a variety of materials such as an up-to-date listing of available housing, an apartment complex guide and a survival manual to life off-campus. It is recommended that students interested in this type of living situation begin their housing search as far in advance as possible by contacting the OCL Office.

Dining Accommodations

Dining accommodations are provided in Lawrence Center where all resident students must take their meals. Commuting students may eat meals in the college dining room on a semester basis or may obtain meals at the transient rates. Nineteen meals are served, cafeteria style, every week. Brunch and dinner are served on Saturdays and Sundays. Menus are carefully planned to meet the nutritional needs of active students.

The dining hall staff is not equipped to meet the special needs of students whose health requires medically regulated diets. Special prob-

lems should be taken to the Infirmary at least two weeks in advance of each semester.

Students who do not have a semester contract for meals may not eat in the dining hall unless they pay the transient fee for an individual meal. If this regulation is violated, the student will be held responsible for payment of the full semester charge for meals in the dining hall.

College Health Service

To meet emergency and first-aid needs and to perform routine infirmary treatment of minor illnesses and minor surgical conditions, two part-time physicians and four registered nurses are available at a minimal $5.00 per semester cost to both part-time and full- time undergraduates.

A four-bed ward is available for short-term observation or treatment, at the discretion of the college physicians. The College Health Service is located on the first floor of Reynolds Hall and is open seven days a week from 8:00 A.M. until Midnight while college is in session. During the night, all emergencies must go to the Chester County Hospital Emergency Room to be treated. Beyond these services, the college does not furnish medical care or bear the costs of medical or surgical treatment or hospitalization. The community of West Chester has qualified physicians and excellent hospital facilities.

Insurance Programs

Only full-time undergraduate students carrying twelve credits may take advantage of a group medical illness and accident insurance policy approved by the college. The choice of two policies is offered —One is on a nine-month basis only, strictly covering accidents or injuries. The second is on a twelve-month basis, covering both medical illnesses and accidents or injuries. These policies may be obtained at a minimal premium cost from the Infirmary Health Service.

The college *requires* all students in health and physical education, all students participating in the intercollegiate athletic program, and all students who are members of a club of an athletic nature to purchase the minimum coverage or show proof of comparable coverage.

Information about the insurance program is mailed to students prior to registration or may be obtained from the College Health Service.

Liability Insurance Requirement for Students in Nursing. See Department of Nursing.

Student Physical Examinations

In addition to the physical examination required for entering students, a completed physical examination form must be submitted annually to the College Health Service by all students participating in the intercollegiate athletic program.

A current physical examination including a report of a negative tuberculin test or chest X-ray showing no active tuberculosis is mandated by the Pennsylvania Department of Education for all senior student teachers and all junior or sophomore students participating in a field experience in the public schools.

The College Health Service reserves the right to request an annual physical examination by the family physician for any student suffering from a chronic illness. The college may deny admission to, or later dismiss, any student whose health would be detrimental to other college students.

No student will receive treatment unless a physical examination form is completed and filed.

These forms are available at the college infirmary.

Physical Examination Requirement for Students in Nursing. See Department of Nursing.

Vehicle Regulations

All students may operate motor vehicles at the college. Students who intend to park motor vehicles on official student parking lots must register their vehicles with the Department of Law Enforcement and obtain an authenticated decal under college motor vehicle regulations.

Campus Post Office

The college has an on-campus post office, located on the second floor of Lawrence Center. Commuting students may receive their mail here through combination-lock mail boxes. Mail boxes are assigned to them on request. Residence hall students receive their mail at their dormitories. To insure prompt delivery, mail sent to resident students should show the student's name, room number, the name of the residence hall, and West Chester, Pa., 19380.

College Policy For Storm Closings

When storm conditions affect the operation of the college, announcements are made over local radio and TV stations via a system of code numbers keyed to affected schools with prefixes indicating whether the school will be closed or open later than usual. West Chester's numbers and applicable prefixes are:

853 Day Classes
2853 Evening Classes
No prefix—Classes are cancelled for the day.
Prefix 5—School will open 1 hour late.
Prefix 6—School will open 2 hours late.

College Bookstore

Operated by the Intracollegiate Governmental Association, the College Bookstore is located on the ground floor of the Sykes College Union Building. In addition to required textbooks, the bookstore carries a full line of school supplies, health and beauty aids, supplementary reading material, physical education uniforms, gift items and the many other "necessities" of student life. Purchases may be charged to students or their parents subject to certain qualifications. Details are available at the IGA Business Office in Room 211, Sykes College Union Building where application for credit may be made. All profits derived from the bookstore benefit the student body through the IGA.

Sykes College Union

This multi-purpose facility brings to the college community a unique approach to educational programming, recreation, Social events, dining and cultural activities. The union is truly a meeting place for all members of the college community.

Under one roof are lounges, meeting room facilities, recreation and leisure time activities plus a campus deli. Also housed within this complex are the Student Development Division, I.G.A., bookstore, checkcashing, tickets service, "Quad" newspaper, WCUR radio, and information center.

Counseling Center

Located on the second floor of Lawrence Hall, the Counseling Center provides counseling services without charge to all undergraduate and graduate students at West Chester. The faculty in the Counseling Center includes licensed psychologists who are interested and experienced in working with college students. Students may discuss their concerns, feelings, hopes, and interests freely and in strict confidence.

COUNSELING SERVICES:

Since the Counseling Center provides services for a wide range of concerns, each student's experience will be tailored to his or her request. Students may want to clarify their vocational or educational choices, improve their interpersonal skills, or resolve personal conflicts. Their choice of approach could include one or more of the following counseling center services.

1. *Individual vocational* counseling consists of a one-to-one counseling experience which focuses upon the student's choice of major and vocation. Vocational choice is most solid when it is the outgrowth of understanding one's self. Such understanding requires time and thought and involves the student's identifying his or her own style, values, interests, and abilities. Psychological testing as well as discussion often enhances self understanding.
2. *Individual counseling for personal problem solving* consists of a one-to-one counseling experience where the focus is upon resolving personal conflicts, conflicts with others, and upon improving the student's expertise at making personally meaningful choices. It may also help some people avoid decisions which restrict their personal growth and undermine their well-being.
3. *Group counseling* consists of a small group of peers with one or more counselors. Such groups meet usually once weekly to provide group members with constructive learning about themselves. Groups often have a specific focus. Past groups have focused upon:

    Elimination of self-defeating behavior
    Assertivenes training
    Anxiety maintenance
    Test anxiety reduction
    Weight reduction
    Career exploration
    Procastination—how to avoid it

4. *Testing*—Information from psychological tests can be useful in increasing self understanding and can often assist in the process of vocational and educational decision making. The Counseling Center faculty is trained in the administration and interpretation of psychological tests and the student and his or her counselor can decide whether testing might be helpful to you. Arrangements can also be made at the Counseling Center for taking the

Graduate Record Exam and the Millers Analogies Test—two graduate school admissions tests.

5. *Consultation Services*—The Counseling Center faculty also is available to consult with staff and faculty members of the college community. It can assist with crises, program planning, group and interpersonal communications, as well as referrals to other agencies.

Speech and Hearing Clinic

The services of the Speech and Hearing Clinic, located on the second floor of Wayne Hall, are available to students. The clinic, which the Department of Communicative Disorders maintains as a teaching-training facility, provides diagnostic and therapeutic services for persons with speech and hearing problems. Others who may use the services of the clinic are the college community and residents of West Chester and the surrounding area.

Career Planning and Placement Services

The professional staff of the Career Development Center works directly with students throughout their years in college assisting in defining career goals, relating academic preparation to these goals, and, eventually, helping in the search for fulfilling occupations. These services are available throughout the entire calendar year in Lawrence Center, second floor. A career information library is kept current for browsing and research. Graduate school catalogs and other reference material are maintained for students considering graduate school. Other activities of the Career Development Center include career days, seminars, and on-campus interviews with potential employers.

Scheduling of College Events

The Office of the Program Board, Sykes Union, is the contact point for information regarding the availability of college facilities, for college functions and special events. Such activities should be scheduled in advance, especially if the board needs to coordinate the services of support staff, supplies and technical equipment.

The Intracollegiate Governmental Association

All students, upon payment of their student government fee, are members of the Intracollegiate Governmental Association, which is the student governing body concerning itself with the welfare of all students. Under its constitution, the IGA provides students with experiences in the processes of democratic government.

The elected General Assembly is the IGA's legislative body; the IGA program is administered through its officers and a student committee system. In fiscal matters, in various policy-making areas, and in disciplinary action, final authority rests with the president of the college and the Board of Trustees.

Under guidance from the vice-president for administration and student affairs, the IGA maintains the College Bookstore, publishes the student newspaper, operates the college radio station, conducts ticket sales for college events, and plans and conducts many all-campus special events and programs.

Residence Hall Association

The purpose of the Residence Hall Association is to provide for the social, cultural, and educational life of resident students. RHA pur-

chases and maintains recreational equipment, provides social events and aids the residence life staff in educational programming, living conditions, and regulations in the residence halls. Its varied activities stem from representation and participation within the residence halls. Each hall has a representative from every floor and a slate of dorm officers. The officers from every residence hall represent their respective halls in the Residence Hall Association General Assembly. The dormitory presidents sit on the R.H.A. Board of Presidents, the decision making body of the organization. The Board then appoints an executive director to act as official spokesperson for the organization.

Office of Off-Campus Life

The Office of Off-Campus Life (OCL) is dedicated to meeting the specific needs of all off-campus students. Located in Room 206 of the Sykes College Union Building, OCL is staffed daily from 8:30 a.m. till 4:30 p.m. The responsibilities of this office include the Off-Campus Housing Service, advising the Off-Campus Student Association, and serving as a community resource agent for the college and local government in all areas related to off-campus students.

Additional services provided to off-campus students by OCL include landlord/tenant legal aid information, individual and group counseling, educational, cultural, and social programming and development of long-range plans and research on the profile and needs of the off- campus student.

Off-Campus Student Association

Off-Campus Student Association (OCSA) is a student organization whose primary goal is the representation of all students living off campus. OCSA objectives include distribution of college information, designing educational and social programming, and development of positive community relations. Through representation and input to various college committees OCSA represents the ideas and concerns of all students living in the West Chester community as well as students who commute to the college.

The organization encourages students' active participation in all OCSA events. The OCSA office is located in room 229 of the Sykes College Union Building (SCUB), phone number (215) 436-2279. Meetings are held every Tuesday at 11:00 a.m. in room 114 (SCUB). All off-campus students are urged to attend.

Student Standards

West Chester State College believes that its students are mature persons who are attending an institution of higher learning for serious purposes. Therefore, the college believes that all students should accept responsibility for their behavior. In situations that deviate from these ideals, West Chester State College's Judiciary System is designed to hear complaints against individual students and groups of students whose behavior is in violation of existing standards of conduct and regulations as outlined in the Student Standards Document.

In encouraging the development of responsible student conduct, the college employs counseling, guidance, admonition, and example, as well as disciplinary proceedings. Students found in violation of the college's rules and regulations may be subject to disciplinary action which could include suspension and/or expulsion.

Organizations and Activities

West Chester has an extensive program of extra and co-curricular activities under the direction of the vice-president for admissions and student affairs, who works directly with the officers and committees of the IGA in coordinating the program seeing that it reflects and fulfills student needs. Many of the activities are described in the following pages with additional details provided in the student handbook, *Ram's Eye View*.

Cultural Affairs

Under the auspices of the Intracollegiate Governmental Association, the Office of the Program Board is charged with the development of the All-Star Series. This program strives to bring artists of national prominence in the areas of music, mime, and theatre to members of the college community. In addition, the board administers the William Plye Philips Lecture Series, featuring individuals from the worlds of the arts, politics and science.

Additional college events popular with the student body include The Program Board Pop Film and Concert Series, the School of Music concerts and recitals, monthly exhibits at the Francis Harvey Green Library, art exhibits in Mitchell Hall, the English Colloquium, the College's Theatre Dance Group annual performance, and Little Theatre Productions in the Studio Theatre and Turk's Head Playhouse.

Musical Organizations

In conjunction with the regularly scheduled student and faculty recitals, the college maintains the following well-developed musical organizations which contribute to the wealth of fine music on the campus.

THREE COLLEGE BANDS. Membership in the Symphonic Band, Concert Band, and Marching Band is determined by the student's qualifications regardless of curriculum.

COLLEGE STRING ORCHESTRA. Membership in this organization is open to all qualified students.

WIND ENSEMBLE. A band of 50 to 60 outstanding campus wind instrumentalists and percussionists, the ensemble performs difficult music emphasizing contemporary works.

SYMPHONY ORCHESTRA. Membership is determined by the student's qualifications.

INSTRUMENTAL ENSEMBLES AND CHAMBER MUSIC GROUPS. Membership in these groups is determined by the student's qualifications.

THE CRITERIONS. Members of the college jazz lab band are selected by audition.

CONCERT CHOIR. This mixed choir of approximately forty music students selected by audition meets twice a week, devoting its efforts toward acquiring a fine technique of choral singing through the preparation of an extensive repertoire for performance.

CHAMBER CHOIR. Members of this choir which performs music of the Renaissance and baroque periods, are selected by audition.

CHOIR. A mixed choir of junior and senior music students, this group meets twice a week, devoting its efforts toward a wide asso-

ciation with choral literature. It is used as an opera chorus in School of Music productions and joins with the Concert Choir for large performances.

WOMEN'S CHORUS. All freshman and sophomore women not in the Concert Choir who are enrolled in music education are required to take this course, devoting their efforts primarily toward acquiring the techniques of choral singing.

MEN'S CHORUS. All freshman and sophomore men in music education who are not enrolled in the Concert Choir are required to take this course. Men from all other curricula are invited to audition for this group.

MIXED CHORUS. This mixed chorus of freshman and sophomore music education students meets once a week, alternating as a mixed chorus and as Men's Chorus and Women's Chorus. It combines with the Concert Choir for performances.

MUSICA ANTIQUA. Open to all students, the weekly meetings of Musica Antiqua are for the pleasure of learning to sing and play early music, using reproductions of ancient instruments. Public performances are presented.

OPERA CHORUS. The chorus is formed through an elective course devoted to the training of a choral group which participates in opera and operetta production. Membership is by audition.

WOMEN'S GLEE CLUB. This organization provides an opportunity for non-music women students to participate in a choral group. The activities include the annual Christmas Carol Program and the Women's Glee Club spring concert. Membership is by individual audition.

Sports, Athletics, Recreation

Sports and recreational activities are popular elements of student life at West Chester. The college intramural and intercollegiate athletic programs are open to all students.

Through the division of Admissions and Student Affairs and the Intracollegiate Governmental Association the college supports eleven women's and eleven men's intracollegiate athletic programs. Students are encouraged to become involved in a wide variety of team and individual sports. The outstanding facilities and coaching staffs enhance the quality of these offerings.

An extensive variety of informal sports and recreational activities including court games, field games, swimming, hiking, ice skating, canoeing, bicycling, skiing, and camping are offered through the office of recreational services. Students are encouraged to participate in these leisure time activities throughout the entire college community.

Forensics and Theatre

FORENSICS. The college has a strong program in intramural and intercollegiate forensics. Its Forensic Society is the focal point for training in competition in debate, oratory, extemporaneous speaking, after-dinner speaking, discussion, interpretive reading, and other events.

LITTLE THEATRE. Excellent opportunities for experience in theatre are offered through this student organization which functions in the

Studio Theatre and Turk's Head Playhouse. Its major productions, drawn both from the classics and from contemporary drama, are outstanding events for the college and the community as well. All students with an interest in drama are welcome.

WEST CHESTER COLLEGE MUSICAL THEATRE COMPANY. Students with an interest in joining other students in the production of Broadway musical fare may enjoy what this group has to offer. Productions are mounted, directed, designed, and performed by students. Musical Theatre Company welcomes all students.

Publications and Radio

THE QUAD. This student newspaper is published by the Intracollegiate Governmental Association with a faculty member as advisor. All interested students are invited to seek positions on the Quad which offers training and experience in many areas of journalism.

THE SERPENTINE. This yearbook provides a pictorial and written record of the year's activities at the college. It is edited by a student staff with a faculty advisor.

COLLEGE LITERATURE. This journal of scholarly articles on frequently taught literary works is published thrice yearly.

RAM'S EYE VIEW (THE STUDENT HANDBOOK). Detailed information concerning student life is provided by this annual, student-edited publication. It is particularly valuable to the incoming student.

STATION WCUR. Sponsored by the Intracollegiate Governmental Association, WCUR serves the college with news, music, and special interviews and programs. The station, operated entirely by students, offers experience in all phases of radio communication.

Religious Organizations and Places of Worship

Opportunities for fellowship and religious experience are offered by the following groups:

Campus Crusade for Christ	Christian Science Organization
Hillel Club	Fellowship of Christian Athletes
Newman Student Association	Lutheran Student Association

The Ecumenical Campus Ministry Board, Inc., is an interdenominational ministry which works with students and the campus community in pertinent religious areas, both personal and social. Through its ministers and its executive director, various programs, including interfaith experiences, are provided.

Students are always welcome at the many places of worship in and near the Borough of West Chester.

Black Student Union

The Black Student Union, which was formed in 1971, is dedicated to the creation of a relevant atmosphere for black students at West Chester. Black Student Union membership is open to all West Chester students, faculty, and staff—regardless of race, color, or creed—who have a concern for the black cause.

A major purpose of the organization is to broaden and enhance the academic and social life for black students at the college. The union's democratically structured constitution provides for an executive board elected by the membership. Applications for membership

in the Black Student Union are reviewed by the executive board. Applications for membership may be made at the Black Student Union office in the basement of Recitation Hall.

Institute for Women

The Institute for Women is an independent body designed to represent the interests of women on the campus. It serves as the parent organization for the Women's Center, the Women's Studies Program, and the Title IX and Sex Discrimination Board. The Institute is headed by a Director and a Board of Directors.

Located in 211 New Main Hall, the Institute sponsors a number of activities to enhance the self-esteem and career success of women at the College. The newest activity initiated by the Institute is the Annual Grace Cochran Research on Women Award, named after a 1906 graduate of the West Chester State Normal School; it is designed to encourage women-centered research by students. The Institute also prepares periodic reports on the status of women at the College. For more information, call (215) 436-2462, 2122.

Honor Societies

ALPHA EPSILON. This society is the West Chester chapter of Omicron Delta Epsilon, an international economics honor society, which recognizes high scholastic achievement in the field of economics. Students must achieve a 3.0 average and have had 12 semester hours of economics with a "B" average to maintain membership in the organization.

ALPHA KAPPA DELTA. This international honor society in sociology is dedicated to promoting interest in the discipline and sociological research that will lead to improvement of the human condition. It is open to students who have completed 12 or more hours in sociology with a minimum average of 3.0 by the junior or senior year.

ALPHA LAMBDA DELTA. The West Chester chapter of this national freshman honors society encourages superior scholarship attainment and continued scholarly development. A 3.5 average for the first two semesters is required for membership. Thereafter a student must maintain a cumulative grade average of 3.0 in order to maintain active membership in the organization.

ALPHA MU GAMMA. The Department of Foreign Languages sponsors a chapter of this national collegiate foreign-language honor society, devoted to promoting the study of foreign languages and encouraging cultural exchange with foreign students.

ALPHA PSI OMEGA. This honorary fraternity recognizes excellence in and dedication to the theatre arts. It is sponsored by the Department of Speech Communication and Theatre and membership is open to all students regardless of major.

GAMMA THETA UPSILON. Gamma Eta Chapter of this international professional geographical honorary society was established in 1963. The organization promotes professional interest in geography and provides services with the Department of Government and Planning.

KAPPA DELTA PI. Kappa Delta Pi is a national honorary society for junior and senior students in education who excel in scholarship, maintain high personal standards, and are dedicated to the teaching profession.

PI GAMMA MU. The Omega chapter recognizes scholarship in the social sciences and encouragement of social service. Majors in the social sciences who have demonstrated high academic achievement may become candidates for membership in their junior or senior years.

PHI KAPPA DELTA. This professional fraternity is open to students preparing for administrative careers in business and government. Its objectives are to participate in worthy undertakings on campus in administration and in the community and to promote educational, vocational, and leadership opportunities and experience for all members.

PI KAPPA LAMBDA. The primary objectives of this national music honor society are the recognition and encouragement of the highest level of musical achievement and academic scholarship. Nominations and elections to membership are the responsibility of the faculty committee of the chapter. Delta Sigma chapter at West Chester State College was established in 1978.

PI KAPPA DELTA. A chapter of this national honor society for students in competitive forensic activities was established in 1969. Pi Kappa Delta has its base in the Forensic Society.

PI MU EPSILON. This national mathematics society is open to junior standing students who rank in the upper-third of their class and have completed 18 hours of mathematics with a minimum average of 3.0. It is also open to sophomores who rank in the top quarter of their class and have completed 3 semesters of the calculus sequence with an average of 4.0.

PHI ALPHA THETA. Organized in 1968, Nu Sigma chapter of this international honor society in history is sponsored by the Department of History. Phi Alpha Theta is open to history majors in teacher education and liberal arts who have a minimum average of 3.01 in twelve or more semester credits in history.

PHI DELTA KAPPA. This is an international honor society in graduate education for both men and women who are actively engaged in the profession of education. Its aim is to promote quality education on all levels, particularly in publicly supported education. Results of research are reported in its extensive publications. The West Chester State College campus chapter includes over one hundred members from the surrounding area and from the campus.

PHI EPSILON KAPPA. The School of Health Sciences sponsors the Gamma Alpha Chapter of this national, professional, honor fraternity for students majoring in health and/or physical education. Phi Epsilon Kappa seeks to advance the profession of health and physical education and promote brotherhood among its members.

PHI MU ALPHA SINFONIA. Rho Sigma chapter of the professional men's music fraternity was formed at West Chester in 1967. The organization seeks to advance the cause of music in America and to foster the welfare and brotherhood of students of music. Upon approval by the brotherhood prospective members are invited to pledge the fraternity. These prospective members must be at least second semester freshmen.

PSI CHI. A chapter of this national honor society in psychology is sponsored by the Department of Psychology. Membership is by

invitation, with scholarship as the major criterion. Psi Chi, under the aegis of the American Psychological Association, endeavors to advance the science of psychology and encourages superior scholarship in all academic fields, particularly in psychology.

SIGMA ALPHA IOTA. Epsilon Epsilon chapter of this internationally incorporated professional fraternity for women in music was formed in 1968. The fraternity is dedicated to service in the field of music. Membership, by invitation, recognizes scholarship, and musicianship. Members must be in at least their second semester.

SIGMA TAU DELTA. Under the sponsorship of the English Department, a chapter of Sigma Tau Delta, national honor society for students of English, was established at West Chester State College in 1977. This organization has for its major purpose the stimulation of interest in the opportunity for practice and experience in all phases of the study of English language and literature.

Service Fraternities and Organizations

ALPHA PHI OMEGA. Omicron Upsilon chapter of this fraternity, which is dedicated to service and leadership development, is open to all men of the campus community. Omicron Upsilon chapter conducts many service-oriented activities.

GAMMA SIGMA SIGMA is a national service sorority composed of college and university women. Its bylaws state its purpose: "to assemble college and university women in the spirit of service to humanity. It shall serve to develop friendship among women of all races and creeds through working side by side in the fulfillment of these goals common to all."

THE FRIARS SOCIETY. The Friars Society, which has been established at West Chester for many years, is composed of sophomore, junior, and senior men invited into the organization in recognition of character and leadership. The society's various service projects concern the good of the college community.

Social Fraternities and Sororities

The college has a system of social fraternities and sororities, governed respectively by the Inter-Fraternity Council and the Panhellenic Council, a chapter of the National Panhellenic conference. Since their introduction in 1967-1968, the social fraternities and sororities have become an integral part of campus life.

NATIONAL FRATERNITIES	NATIONAL SORORITIES
Alpha Phi Alpha	Alpha Kappa Alpha
Kappa Alpha Psi	Alpha Phi
Lambda Chi Alpha	Alpha Sigma Tau
Omega Psi Phi	Alpha Xi Delta
Phi Beta Sigma	Delta Sigma Theta
Sigma Phi Epsilon	Delta Zeta
Tau Kappa Epsilon	Zeta Tau Alpha
Theta Chi	

The Program Board

The Program Board is a major committee of the Intracollegiate Governmental Association and one of many organizations funded through the activity fee. Its goal is to develop an on-going series of co-curricular activities which complement the academic experience, providing events that are recreationally fun and intellectually fulfill-

ing. The board strives to achieve this end through the mediums of the visual arts (film and video); the performing arts (lecture, theatre and dance); and contemporary performance (concert and cabaret).

The Alumni Association

Graduation doesn't necessarily mean termination of college activities for students as West Chester has a large and active Alumni Association. It has branch organizations in various Pennsylvania communities as well as out-of-state in New Jersey and California. Alumni Day is held annually at the college during May and the association publishes a quarterly magazine, *The Olden Ram*, to keep members informed of college concerns.

Degree Requirements

REQUIREMENTS FOR THE BACCALAUREATE DEGREE

1. Satisfactory completion of a minimum of 128 semester hours at or above the 100-level, distributed as shown in the curriculum for the student's major field.
2. Achievement of a cumulative grade point average of at least 2.00 (C) and an average of at least 2.00 (C) in the major field.
3. Attendance at West Chester State College for at least 30 semester hours of the degree program, normally at least the final 30 semester hours of the degree program.
4. Fulfillment of any special requirements or program competencies which are particular to a department or a school.
5. Fulfillment of all financial obligations to the college, including payment of the graduation fee; and of all other obligations, including the return of college properties.
6. Compliance with all academic requests from the Dean of Academic Services and Special Programs including the request for Notice of Intention to Graduate.

NOTES:

Students are permitted to pursue dual majors under the same degree with the concurrence of the participating departments.

Students who do not demonstrate basic proficiency in English or Mathematics may be required to take 000–level courses as prerequisites of their degree programs.

Human Relations Requirement for All Students

Effective September, 1976, a one-credit human relations course taken as a part of the New-Student Orientation Program is a requirement for all degree candidates. This course is graded on a pass-fail basis. Students who have fulfilled the equivalent of this course elsewhere may apply to the chairperson of the Department of Anthropology and Sociology for recognition of this as a credit or non-credit equivalent.

The General Education Requirements Common to All Baccalaureate Curricula

West Chester State College's over-all curriculum has been substantially altered in the last few years as the result of a comprehensive investigation with recommendations by committees and councils comprised of faculty, students and administrators. Aimed at determining genuine needs and realistic goals for today's students, the extensive study has resulted in a new program of general education requirements allowing freedom of choice for the student within educationally sound limits.

It was felt that a broad education must encompass experiences in humanities and the social and natural sciences. At the same time, however, it becomes obvious that today's education must be versatile because of the many new courses and areas of study that are constantly becoming available.

The "new" general education requirements which constitute the liberal arts core apply to all freshmen entering West Chester in June, 1980 and thereafter. Transfer students and other students who will be expected to graduate before 1983-84 will follow the requirements that were in effect prior to 1980.

All students should counsel closely with their advisors. Each department has a handbook or guide outlining courses of study for the various curricula that are available. These give required courses, prerequisites and other information necessary for the successful completion of the student's degree program.

NEW BACCALAUREATE GENERAL EDUCATION REQUIREMENTS

(for freshmen entering June, 1980 and thereafter). Transfer students are to fulfill the requirements of the general education program applicable to the majority of the members of their graduating class.

I. **Basic Skills** 5–11 semester hours
English Composition (0–6)*

*Policy for Placement in Freshman Composition Courses.
All entering freshmen with Verbal SAT scores below 450 must pass English 000 (Basic Writing) before they may enroll in English 120 and 121 (Effective Writing I and II, 3 credits each). Students with Verbal SAT scores between 450 and 590 take English 120 and 121. Students with Verbal SAT scores of 600 or above must take English 121.
Exemptions: Students may take a placement test during their summer orientation week; if they pass it, they will be allowed to bypass the composition course they would have taken first according to their SAT scores. (That is, students below 450 who pass the placement test will enroll in English 120; students in the 450–590 group who pass the test will enroll in English 121.)

Mathematics, competency test and 3 hours, designated by major department
Physical Education (2)
(or Health on petition)

II. Distributive Requirements (Approved courses are noted with a ★ in the course listings.)**

A. Science: one approved course in three of the following areas: — 9 semester hours
Biology, Chemistry, Computer Science, Earth Science, Physics

B. Behavioral and Social Sciences — 9 semester hours
One approved course in each group, plus a third in a discipline not previously selected.
1. Anthropology, Psychology, Sociology
2. Economics, Geography, Government

C. Humanities — 9 semester hours
One approved course in each:
Literature
History
Philosophy

III. The Arts — 3 semester hours
Any course in the following areas:
Art, Cinematography, Dance, Music, Photography, Theater.

IV. Free Electives — 9 semester hours
These hours are normally completely at the choice of the student. They may not be used to satisfy major, core or cognate requirements except in those programs which have received specific exemptions from the college policy. Some programs may require a speech course. All these free electives must be at or above the 100-level.

Total: 50 semester hours

All students are encouraged to complete these requirements in their first two years at West Chester.
For further information, consult the Office of Academic Services.

V. Writing Emphasis Courses — 6 semester hours
Each student must take at least three approved Writing-Emphasis courses at West Chester. At least two of these must be outside the student's major field of study. Each course may simultaneously fulfill another degree requirement.

**Students may substitute a two-semester entry-level course for a course marked with a ★ provided that such a course sequence has been so designated before they enroll in it. For example, His 101-102 may be substituted for His 100.

VI. **Supplementary General Education Requirements**
Students in some programs have additional general education or cognate requirements to fulfill in disciplines related to their major discipline. Such requirements are currently being reviewed by the College. Students should consult with their major program advisor about the requirements which apply to them.

Foreign Language and Culture Requirements for Bachelor of Arts Degree Candidates.

A. Candidates for the B.A. degree in the following departments are required to complete the second half of the intermediate year of a foreign language:

Art
Biology
English
Foreign Languages (in a third language)
Mathematics
Physics
Social Welfare
(New freshmen interested in other B.A. degree programs are urged to consult with their departmental advisors regarding the foreign language requirements of the particular programs.)

Students may satisfy the foreign language requirement by presenting evidence of preparation equivalent to the 202 level either by certificate or by examination. Students who are not qualified to take the 202 course prepare themselves by taking the Elementary (101–102) and/or intermediate (201) course or courses.

B. Candidates for the B.A. degree in other departments have the option of demonstrating foreign language competence through the intermediate level or else demonstrating foreign language competence through the Elementary II (102) level and taking three courses dealing with the related foreign cultural area. Questions regarding the foreign language requirement in these other departments should be addressed to their appropriate department chairpersons. The Foreign Language plus Foreign Cultures option is open to freshmen who entered after May, 1980.

C. Attention is called to the policies regarding taking courses out of sequence, page 67. Testing and placement is handled by the Department of Foreign Languages.

Foreign Culture Clusters

Students selecting the Foreign Language plus Foreign Cultures option must take three courses in three separate disciplines outside their major department. All three courses must be selected from the cluster of courses pertaining to the Foreign Culture Area of the language studied, as indicated below in parentheses.

I. Classical Civilization (Latin or Greek)
Approved courses: ART 382, ART 485; HIS 218; PHI 270.

II. France and Francophone Area (French)
Approved courses: GEO 303; HIS 327; PSC 342.

III. Germany (German)
Approved courses: GER 205, GER 206, GER 305; GEO 303; HIS 323; PHI 273; PSC 342.

IV. Italy (Italian)
Approved courses: GEO 303; HIS 326; PSC 342.

V. Latin America (Spanish or Portugese)
Approved courses: ANT 322, ANT 362; GEO 302; HIS 315, HIS 316, HIS 317; PSC 340.

VI. Orient (Chinese or Japanese)
Approved courses: ANT 329; HIS 301, HIS 305, HIS 306; PHI 262; PSC 341, PSC 343.

VII. Russia and Eastern Europe (Russian or an Eastern European Language)
Approved courses: ART 405; GEO 304; HIS 324, HIS 325.

For additional courses or for permission to substitute another course, contact the Dean of Academic Services and Special Programs.

THE OLD GENERAL EDUCATION REQUIREMENTS*

(as revised in April 1974 and introduced to freshmen entering beginning June 1974 and up to 1980)

I BASIC SKILLS — 5-8 SEMESTER HOURS

English Composition (3-6)
Physical Education (2)

II HUMANITIES — 9 SEMESTER HOURS

One course in three of the following areas:

Art
Literature
Music
Philosophy
Speech/Theatre

III SOCIAL AND BEHAVIORAL SCIENCES — 9 SEMESTER HOURS

One course in three of the following areas:

Anthropology/Sociology
Economics
Geography
History
Political Science
Psychology

*Transfer students entering in or after 1980 who expect to graduate before 1983-84 must fulfill these requirements. They also must fulfill all other requirements which pertain to the majority of students in their respective majors who will be graduating with them.

IV SCIENCES AND MATHEMATICS — 9 SEMESTER HOURS

One course in three of the following areas:

Biology
Chemistry
Computer Science
Earth and Space Science
Mathematics
Physics

V FREE ELECTIVES — 9-12 SEMESTER HOURS

These hours are completely at the choice of the student.

TOTAL: 44 SEMESTER HOURS

SUPPLEMENTARY GENERAL EDUCATION REQUIREMENTS

(for students graduating after 1976, and prior to 1984)

A. Arts and Letters—15 semester hours

Beyond courses selected to meet the general requirements, students in some programs of study * are required to take one course in each of the following areas plus a second course from one of the areas:

(a) Art
(b) Literature
(c) Philosophy
(d) Speech Communication/Theater

*Applicable to candidates for both the degree of B.A. and the degree of B.S. in Education in the following fields:

Art, Communicative Disorders, English, Foreign Languages, Philosophy, and Speech Communication and Theatre.

B. Social and Behavioral Sciences Core—21 semester hours.

1. Beyond courses selected to meet the general requirements, students in some programs of study ** are required to take one course in four of the following disciplines. (i.e. 12 semester hours) which were not studied under the general requirements plus one additional course in each of the three of the below listed disciplines outside the major field of study, (i.e. 9 semester hours).

(a) Anthropology
(b) Economics
(c) Geography
(d) Government
(e) History
(f) Sociology
(g) Psychology

12 semester hours.

**Applicable to all candidates for the B.S. in Criminal Justice and to candidates for the degree of B.A. or B.S. in Education in the following areas: Accounting, Anthropology, Business, Criminal Justice, Economics, Geography and Planning, Government, History, Psychology, Social Welfare and Sociology.

2. Students in the above-listed areas must also complete (18) eighteen hours of residency in the department from which they graduate.

REQUIREMENTS FOR THE DEGREE OF ASSOCIATE OF ARTS IN LIBERAL STUDIES

West Chester State College has begun offering an Associate of Arts in Liberal Studies which can be completed in two years of full-time study or the appropriate equivalent of part-time study.

Students in this program must fulfill the following requirements:

1. Satisfactory completion of a minimum of 64 semester hours at or above the 100-level.
2. Completion of the Associate of Arts General Education Component.
3. Completion of an approved area of concentration consisting of 15 to 21 hours.
4. Achievement of a cumulative grade point average of at least 2.00 (C) and an average of at least 2.00 (C) in the area of concentration.
5. Attendance at West Chester State College for at least 30 semester hours, normally the last 30 hours, of the degree program.
6. Fulfillment of any special requirements or program competencies which are particular to a department or school.
7. Fulfillment of all financial obligations to the college, including payment of the graduation fee; and of all other obligations, including the return of college properties.
8. Compliance with all academic requests from the Dean of Academic Services and Special Programs, including the request for Notice of Intention to Graduate.

Students currently enrolled in the college who wish to obtain an AA degree are to declare their intention prior to the completion of 50 semester hours.

ASSOCIATE OF ARTS IN LIBERAL STUDIES

I. **AA General Education Component** — 38 semester hours

A. **MAN'S PAST** [1]—6 s.h.
One course in each of the following disciplines:
- Anthropology
- History

B. **MAN'S PRESENT** [1]—6 s.h.
One course in two of the following disciplines:
- Economics
- Political Science/Planning
- Psychology
- Sociology

C. **THE IDEAS OF MAN** [1]—6 s.h.
One course in each of the following disciplines:
- Literature
- Philosophy

D. **THE SCIENCES** [1]—6 s.h.
One course in two of the following disciplines:
- Biology
- Chemistry
- Computer Science
- Earth Science
- Physics

1. These requirements are to be fulfilled with courses selected from the list of courses approved as General Education courses in the baccalaureate program.

E. **THE ARTS**—6 s.h.
One course in two of the following disciplines:
- Art
- Cinematography
- Dance
- Music
- Photography
- Theater

F. **SKILLS AREA**

English Composition [2]	3 s.h.
Mathematics [2]	3 s.h.
Health or Physical Education	2 s.h.

II. **Approved AA area of concentration—15-21 hours**

III. **Free electives to complete 64 semester hours**

2. On the basis of proficiency or placement tests, some students may be required to take 000-level courses in English or Mathematics or prerequisites of their degree programs.

Approved Associate of Arts Concentrations

The areas of concentrations approved for the degree of Associate of Arts in Liberal Studies include the following: Anthropology, Astronomy, Developmental Disorders, Earth Science, Geology, History, Literature, Philosophy, Psychological Services, Psychology, Religious Studies, Sociology, Speech Communication, Theater, Women's Studies, and Writing. Students may develop an individualized concentration of 15 to 21 semester hours of courses selected under their advisement. For further information about A.A. concentrations, contact the Dean of Academic Services and Special Programs.

Free Electives

In addition to the requirements of the area of concentration candidates for the degree of Associate of Arts in Liberal Studies have the opportunity to take two or three courses of their own choosing. Students contemplating continuing on in a four-year program requiring competence in a foreign language are advised to select courses which will help them achieve this competence.

ACADEMIC POLICIES AND PROCEDURES

Qualifying for the Teaching Certificate

Upon satisfying all of the baccalaureate degree requirements listed in this bulletin, students in teacher education programs may qualify for the Instructional I Certificate, which will be issued by the Pennsylvania Department of Education. The specific applications of the Instructional I Certificate, according to the field or area of study, are detailed under "Teaching Certificates" in Academic Affairs Section of this catalog.

All students seeking a teaching certificate should consult with their professional advisor regarding certification requirements prior to their junior year.

Second Baccalaureate Degree

An individual may pursue a second baccalaureate degree at West Chester State College after achieving the first baccalaureate degree either at West Chester or some other institution. Such an individual must apply for admission through the Office of Admissions as a transfer student and earn at least thirty hours on campus beyond the requirements of his/her initial baccalaureate program. All requirements for the curriculum in which the second degree is earned must be satisfied. A given course required in both the degree programs may not be repeated for the second degree.

The main purpose of the option of applying for a second degree is to provide baccalaureate recognition for those who have secured a degree in an area divergent from the intended major.

West Chester State College does not permit a student to pursue two degrees simultaneously, except in the five-year program in engineering in cooperation with Pennsylvania State University. Students who wish to pursue a double major for their initial baccalaureate degree should discuss the feasibility of this with appropriate program advisors. (See also page 53.)

Minor Fields of Study

Effective with the 1979-80 academic year the college has been giving students transcript recognition if they complete an approved minor field of study. Students receive such recognition if they complete 15 to 21 hours of courses selected in consultation with their minor program advisor. Students who have enough flexibility in their major curriculum to fulfill the requirements of a minor fill out and submit a Minor Program of Study form in the Office of the Registrar. To enroll in a minor field of study students must have the permission of both their major and their would-be minor department.

Minors available at West Chester State College include the following: Accounting, Anthropology, Anthropology/Sociology, Astronomy, Biology, Criminal Justice, Developmental Disabilities, Earth Sciences, Foreign Languages, Geography and Planning, Geology, History, Literature, Mathematics, Philosophy, Physics, Political Science/Public Administration, Psychology, Religious Studies, School Health, Sociology, Speech Communication, Theater, Women's Studies, and Writing.

Specific course requirements may be obtained from the minor program advisors.

Academic Advising

Under West Chester's advising program, all students have faculty advisors, appointed through their major departments, who counsel them on academic matters throughout their undergraduate years. Students, however, are responsible for seeing that they meet all graduation requirements.

Changing Majors

A student wishing to transfer from one program of study at the college to another program files a Change of Curriculum form in the Office of the Registrar. The student must meet the standards for admission into the desired program and must obtain written permission from the department involved. Any courses which were initially accepted for transfer credit from another college are subject to reevaluation by the department to which the student transfers internally.

Classification by College Program

Degree Candidates—all undergraduates admitted to a degree program by the Office of Admissions or through approved internal transfer recorded in the Office of the Registrar.

Non-degree Students—special students admitted for course work toward certification, professional growth, or other purposes. Normally, a special student may not earn more than 24 hours of credit at West Chester. This classification does not include students who have been accepted through the Office of Admissions to the temporary undeclared major degree program.

Academic Classification of Students

The student's class designation is determined by the number of semester hours or credit *earned* thus:

Freshman	0-31 semester hours of credit (inclusive)
Sophomore	32-63 s.h. of credit (inclusive)
Junior	64-95 s.h. of credit (inclusive)
Senior	96 or more s.h. of credit

Note: In computing the cumulative grade point average, the total number of credits *attempted* is considered. (See "Cumulative Grade Point Average" below.)

Student Class Load

A full-time class load ranges from 12 to 18 semester hours of credits.

Overloads

Students wishing to carry more than 18 credit hours per semester must secure permission from the dean of academic services and special programs. Permission to carry more than 24 hours is rarely granted.

The normal student load for summer sessions is 3 hours for pre-session, 6 hours for regular session, and 3 hours for post-session. Any exceptions to this rule must be approved by the chairperson of the department in which the student is majoring.

A student will not be allowed to enroll in more than 15 hours in any one summer nor be allowed to carry more than one additional course per session. A student should not seek permission to carry an overload if his cumulative average is below 2.75. Exceptional situations will be reviewed by the dean of academic services and special programs.

Adding a Course

Students may add a course by filing a schedule change form in the Office of the Registrar during the Schedule Change Period.

Dropping a Course

A. During the first week of a semester a student may drop a course, thereby receiving no grade by filing a schedule change form in the Office of the Registrar during the Schedule Change Period.
B. A grade of "W" will be entered on the academic record of any student who drops a course *between the end of the first week and before the end of the fifth class week* or the equivalent in Summer Sessions.

Students may drop a course *between the end of the fifth class week and the end of the tenth class week* and receive a grade of WP or WF from their instructor, only if they have a compelling special reason or emergency.

A student who is doing passing work at the time of approved withdrawal, receives a WP, which is not treated as a grade. A student who is failing, receives a WF, computed as an F.

Students who fail to drop a course officially can expect to receive a grade of F for the course.

Withdrawal from the College

Students wishing to withdraw from the college or take a leave of absence are to go to the Office of the Registrar and follow the prescribed procedures. If illness or some other emergency interrupts the student's college work, he or she must notify the Office of the Registrar at once. Unless a student withdraws officially, F grades will be recorded for unfinished courses.

Taking Courses Out of Sequence

Students may not enroll for credit in a more elementary course in a sequence after having satisfactorily passed a more advanced course

in that sequence. For example, a student may not enroll for credit in French 101 after having satisfactorily passed French 201.

Similarly, students who enroll in a course which requires less proficiency than placement or proficiency tests indicate they possess may be denied credit towards graduation. Native speakers of a foreign language may not receive credit towards graduation for the elementary course in that foreign language.

Pass-Fail Policy

1. All sophomores, juniors, and seniors with a cumulative g.p.a. of at least 2.00 are eligible.
2. The Pass/Fail privilege is limited to one course per semester; only free electives may be taken on a Pass/Fail basis. A free elective is a course which a student selects outside the major field and which the student is not using to satisfy either specific department requirements or a school or college distribution requirement.
3. A grade of *Pass* carries credit value, but does not affect the cumulative index.
4. A grade of *Fail* is computed into the cumulative index.
5. After contracting for Pass-Fail, the student may not request or accept any grade other than a "P" or "F".
6. This process must be completed by the end of the *eighth* week of the semester or the equivalent in Summer School. Forms are available in the Office of the Registrar.

Auditing Privileges

Anyone may attend the college for the sole purpose of auditing one or more courses by obtaining approval from the Office of the Registrar and paying the regular fee. Full-time students have the privilege of auditing one course per semester without charge, provided they obtain approval from the course instructor. Part-time students may audit one course per semester, provided they obtain the instructor's approval, enroll in the course through the Office of the Registrar, and pay the regular course fee.

Credit is never given to auditors, and audited courses do not appear on student records. After the course has commenced, the auditor status may not be changed.

Independent Study and Credit by Examination

Enrolled students desiring approval for independent study or credit by examination must apply on forms available from the Office of the Registrar. A fee of $25 is charged for enrolling for credit by examination. The privilege of independent study or credit by examination is subject to the following conditions:

1. Application within the first two weeks of a semester
2. A cumulative index of at least 2.00 in the major area
3. Evidence of a satisfactory academic background for the course
4. The student has not already completed a more advanced course which pre-supposes knowledge gained in the course. For example, credit examination cannot be given for French 101 after the student passed French 201

Note: Students who have taken a course but have not achieved a satisfactory grade may not apply for credit by examination for the same course.

Graduate Credit

An undergraduate who is in the final semester of work for the bachelor's degree and has an overall grade point average of at least 3.0 may, with the permission of the dean of graduate and continuing studies, enroll in up to six credits of graduate level course-work. Credits earned may be applied to a master's degree program.

Student Absence (Cut) Policy (Effective September, 1980)

The student absence policy is a graduated policy providing leniency to students (primarily juniors and seniors) enrolled in 300 and 400-level courses and restrictions to freshmen and sophomores in 000, 100 and 200-level courses. The absence policy holds that satisfactory proficiency in course work is the student's responsibility, as is class attendance, but recognizes the importance of the professor in the educational process.

The policy is administered at the student-faculty level.

A student enrolled in a 000-level course is not permitted any unexcused absences.

A student enrolled in a 100-level course is permitted to be absent three times or the equivalent for courses that meet less than three times a week.

A student enrolled in a 200-level course is permitted to be absent six times or the equivalent for courses that meet less than three times a week.

A student enrolled in a 300-level course is permitted to be absent nine times or the equivalent for courses that meet less than three times a week.

A student enrolled in a 400-level course has no specific restrictions. This privilege is given to upperclassmen because of the greater amount of individual research which is expected at the advanced level. An upperclassman taking a lower level course must follow the absence policy of that course.

In the event that the student exceeds the number of cuts allowed for a course, the professor is permitted to lower the final letter grade for the course by one letter grade, or ask the student to withdraw from the course and assign a WP or WF.

This policy does not deal with unique circumstances such as preparation and performance in music, theater, athletics and laboratories or professional type duties such as practice teaching. Absences from these courses and duties must be considered on an individual basis by the department and professor responsible for the actual event or duty.

On days of an announced quiz, test, or examination, no absences are permitted at any course level.

Exemption from Final Examinations

Students who have attained an A or B prior to the finals, have completed all other course requirements, and have the instructors' permission may waive final examinations. This privilege is subject to several reservations.

1. Any unit examinations given during the final examination period are not subject to this policy.

2. Academic departments as well as faculty may adopt a policy excluding the final examination exemption for certain courses.
3. Mutual agreement between the instructor and the student to waive the final examination should be determined during the week prior to the beginning of the examination period.

The course grade will be the A or B earned exclusive of a final examination grade.

Grade Reports

After each semester, a report of each student's semester grades is mailed to the student at the home address.

Grading System

Grade	*Interpretation*	*Percentage Equivalents*	*Quality Points*
A	Excellent	A—90-100	4
B	Superior	B—80-89	3
C	Average	C—70-79	2
D	Below Average	D—60-69	1
F	Failure	F—59 or lower	0
P	Passing		
I	Incomplete		
NG	No Grade		
W	Withdrawal		
WF	Withdrew Failing	F—59 or lower	0
WP	Withdrew Passing		
AU	Audit		

I (Incomplete): given when a student fails to complete course requirements by the end of a semester for such valid reasons as serious illness or death in the family. Unless the work is satisfactorily completed within the first nine weeks of the next semester, the I becomes an F.

NG (No Grade): given when a student fails to complete course requirements by the end of a semester. NG is also given when the instructor does not submit a grade. Students who received an NG should consult with the instructor promptly to take steps to complete the course work within the first nine weeks of the next semester. If the work is not satisfactorily completed by the end of the ninth week the NG becomes an F. (Effective September, 1980.)

W (Withdrawal): given when a student withdraws from a course between the end of the first and the end of the fifth class week of the semester or the equivalent in Summer Sessions. (Effective September, 1980.)

WP and WF: See "Dropping a Course," page 67.

Cumulative Grade Point Average

The cumulative grade point average (g.p.a.), sometimes called the cumulative index, is determined by dividing the total quality points *earned* by the total credit hours *attempted*. The following example, based on a single semester, illustrates:

	Semester Hours	Grade	Quality Points for Grade		Quality Points for Course
1st subject	4	A	4	4 × 4 —	16
2nd subject	3	B	3	3 × 3 —	9
3rd subject	3	C	2	2 × 3 —	6
4th subject	3	D	1	1 × 3 —	3
5th subject	2	F	0	0 × 2 —	0
	15				34

34 divided by 15 equals a g.p.a. of 2.27

All grades receiving during a student's enrollment (except the grade of "P" and except D's or F's when a second attempt produces a higher course grade) are included in the cumulative g.p.a. Grades from other colleges are excluded.

If a student repeats a course, in an effort to improve his D or F grade, he or she must notify the Office of the Registrar at the beginning of the semester in which the course is being repeated.

Grade Changes

Normally a grade awarded other than "I" or "NG" is final. Grades other than "I" (Incomplete) or "NG" (No Grade) can be changed only when there is a bona fide clerical error. Any inaccurate final grade must be reported in writing to the professor before the end of the fourth calendar week of the following semester.

Academic Honors List (Effective September, 1979)

The names of students who complete 12 or more hours and achieve a semester index of 3.50-4.00 are placed upon the academic Honors List which is published at the close of each semester. Any student who does not want to have his/her name published should notify the Office of the Registrar at the start of the semester.

Maintenance of Minimum Standards*

Satisfactory academic standing is determined annually. In order to remain in the college as degree candidates in satisfactory academic standing students must attain the following cumulative grade point averages (g.p.a.):

With up to 32 credits attempted or two full-time semesters completed 1.80. After 32 credits attempted or four full-time semesters completed 2.00.

A minimum cumulative g.p.a. of 2.00 (C) for all work taken at the college is required for senior standing and graduation.

Transfer students are required to maintain the cumulative g.p.a.'s shown above. The number of credits taken at West Chester is added to the number of credits transferred for the purpose of determining the credit hours attempted. For example, 34 credits transferred and 32 credits at the college equal 66 credits and require a minimum cumulative g.p.a of 2.00.

*This policy is currently under review.

Satisfactory Academic Progress

A student is regarded as making satisfactory academic progress for purposes of financial aid provided that that student has the official permission of the College to enroll on at least a half-time basis as a degree candidate and provided that that student has a cumulative average of at least 1.0 for the past two semesters, and optionally, the summer session following the spring semester of those two semesters.

Academic Dismissal, Reinstatement and Readmission

A student whose cumulative g.p.a. is below that required for retention may attend summer sessions at West Chester in order to improve the index. If the deficiency is corrected during the summer, the student is reinstated as a degree candidate. If, however, the required cumulative g.p.a. is not attained by the close of summer sessions, candidacy is terminated. The student must remain away from West Chester for one full semester before taking part-time work in an effort to be readmitted.

If a student's cumulative g.p.a is below 1.00 (D) after attending two full-time semesters and the summer session, the student is denied permission to enroll again in the college.

All students must apply formally for readmission as full-time degree candidates; however, no application is necessary, other than proper registration, through the Office of Continuing Education for part-time work taken to qualify. Part-time ex-degree students should seek academic advice from an academic advisor in their major field of academic interest.

Students dismissed for academic reasons are eligible for readmission if they qualify through part-time work taken after the first dismissal. *A second academic dismissal terminates degree candidacy at West Chester.*

Room Reservation Policy for Reinstated Students

Those students living in college dormitories who are in academic difficulty at the close of the spring semester should consult with the housing office as to their eligibility for continued housing on campus.

Repeating Courses (revised 1979)

In a change of academic policy applying to students who were admitted or readmitted after June 1, 1973, the first grade of F, D, C, or B is not computed in the cumulative g.p.a. when a student repeats the course. The second and any subsequent grade for a course are computed into the g.p.a.

Students must inform the Office of the Registrar that they are repeating a course and must do so as the semester of the second attempt begins.

For students admitted before June 1, 1973, the original D or F will be figured into the index.

Students who receive a D or F in a 000-level course must repeat this course before enrolling in a more advanced course. (Effective September, 1980).

Students readmitted after June 1, 1973, are eligible under the new D-F policy only for those courses in which they received a D or F after their readmission.

Except as indicated above, students who repeat a course will not earn additional credits in such a course towards their degree and in the event that the computer adds such credits to the students' records, these will be subtracted at the time of final clearance for graduation.

Transient Student Status—Taking Courses off Campus

West Chester State College students who wish to enroll at another institution and have the credits count towards a West Chester degree fill out and turn in a transient student application in the Office of the Registrar prior to enrolling at the other institution. Students who fail a course at West Chester may not repeat the course at another institution and have the credits count towards a West Chester degree.

In case of doubt as to which West Chester course is the equivalent to the course to be taken elsewhere, the student should consult with the chairperson of the West Chester department offering such courses.

Transfer of Credit

Advanced credit may be granted for equivalent courses completed in accredited institutions of collegiate grade. Credit for work completed at an unaccredited institution may be granted upon the recommendation of the student's major department in consultation with the dean of academic services. (See also Admissions.)

Effective for students who entered the college after September, 1973, D grades are accepted for transfer if the credit is for equivalent courses within the framework of general requirements or free electives, provided the transferred course does not satisfy a major field requirement as well.

D grades considered for transfer for a major program requirement are treated in the same manner as the major department treats D grades earned at West Chester, that is, the student's major department may require the course to be repeated.

If the student is required to repeat a course in which a D was obtained, the course originally considered for transfer will not be accepted for any type of credit likewise, if a student changes his major, D grades originally approved for transfer will be re-evaluated by the new major department.

IN ORDER TO RECEIVE FULL CREDIT FOR COURSES TAKEN ELSEWHERE AND FOR PROFICIENCIES DEMONSTRATED ON ADVANCED PLACEMENT OR CLEP EXAMINATIONS, THE TRANSFER STUDENT SHOULD HAVE THIS WORK EVALUATED PRIOR TO ENROLLING IN ANY POTENTIALLY EQUIVALENT COURSE AT WEST CHESTER.

Policy on Correspondence Courses

The college does not allow credit for courses taken through correspondence.

Advanced Placement Program

Courses taken under the Advanced Placement Program offered by the College. Entrance Examination Board may be applied toward advanced placement in the college and/or toward credit requirements for graduation. The college recognizes the grade of 3.0 or above as acceptable.

College Level Examination Program (CLEP)

West Chester State College encourages the non-traditional student to use CLEP subject examination especially if he or she has not yet applied for admission to West Chester State. While a non-traditional student may utilize CLEP exams after gaining admission to WCSC, the student is urged to examine carefully the merits of the credit by-examination option for individual courses offered by the college. Traditional college students (those who are admitted immediately after high school), should take advantage of advanced placement or credit-by-examination options available at West Chester State College.

West Chester State accepts SUBJECT Examinations in which the score is greater than the 50th percentile. Course credit is given only where the Subject Examination can be applied to specific courses offered most commonly in the general requirements program or in free electives. Those interested should become familiar with the subject areas included in such programs of general study. Courses are accepted as degree credit only; while no grade is recorded, a specific number of credit hours is recorded.

West Chester does NOT accept the General Examination of CLEP.

Requirements for Graduation

A student is recommended for graduation upon the satisfactory completion of a minimum of 128 semester hours and upon fulfillment of all categories of the requirements for his degree. A minimum cumulative g.p.a. of 2.00 (C) is required for graduation. Degree requirements are detailed under the heading of the subject field. See also "Requirements for the Baccalaureate Degree." A student must file for graduation at the beginning of the semester in which the student will complete the requirements.

Resident Credit Requirement

To qualify for graduation, a student must take at least 30 semester hours of credit at West Chester. Normally the student will take the last 30 semester hours at West Chester.

Required Notice of Intention to Graduate

Students intending to graduate in May or August must come to the Office of the Registrar and give Notice of Intention to Graduate no later than February 1. Students intending to graduate in December must give such notice no later than October 1. The baccalaureate degree will not be granted unless this requirement is met.

After submitting this notice, the student will receive a cap-and-gown order form and a bill for the graduation fee. He or she will also specify how his or her name should be shown on the diploma and commencement program. *Unless the deadline is met, it will be impossible for the college to order a diploma, place the name on the forthcoming commencement program or have the transcript reflect the appropriate date of graduation.*

Graduation Honors

Graduation honors are awarded as follows:

	Cumulative G.P.A.
cum laude	3.25—3.49
magna cum laude	3.50—3.74
summa cum laude	3.75—4.00

The Honors List for Commencement is necessarily calculated at the close of the seventh semester. Those who do not attain honors distinctions until the end of their final semester will have recognition of their achievement on their transcripts, where all honors distinctions are recorded.

To be eligible for honors distinctions, transfer students must have completed a minimum of 64 semester hours, or four full time semesters, at West Chester.

Transcripts

Requests for official transcripts are made by writing to the Office of the Registrar, Learning and Research Center. The fee is $1 for each transcript. Checks, payable to the Commonwealth of Pennsylvania, must accompany all but the first request.

Directory Information—Rights to Privacy Act of 1974

West Chester State College has, in the past, made public certain kinds of information about students, such as, the names of those who receive scholarships, who hold offices, or who are members of athletic teams. Various kinds of campus directories are published throughout the year to help members of the college community locate and communicate with each other. The commencement programs publish the names of those who have received degrees during the year.

The Family Educational Rights and Privacy Act of 1974 defines the term "directory information" to include the following categories of information: the student's name, addresses, telephone numbers, date and place of birth, major field of study, participation in officially recognized activities and sports, weight and height of members of athletic teams, dates of attendance, degrees and awards received, and the most recent previous educational agency or institution attended by the student. The college will limit information which is made public to categories such as these but will not necessarily publish all such information in every listing.

Undergraduate students who *do not wish* to have any or all of such "directory information" published without their prior consent must file notice in the Office of the Registrar. Graduate students must file notice in the Office of Graduate and Continuing Studies. A signed, dated statement specifying items not to be published must be brought by the student to the appropriate office within the first fifteen calendar days after the beginning of the fall semester.

STRUCTURE OF THE COLLEGE

JANUARY 1981

FACULTY OF ARTS AND SCIENCES

Anthropology & Sociology
Art
Biology
Chemistry
Earth Sciences
English
Foreign Languages
History
Mathematical Sciences
Philosophy
Physics
Psychology
Speech Communication & Theatre

FACULTY OF PROFESSIONAL STUDIES

SCHOOL OF ADMINISTRATION & PUBLIC AFFAIRS

Accounting
Business Administration
Criminal Justice
Economics
Government & Planning
Social Work

SCHOOL OF EDUCATION

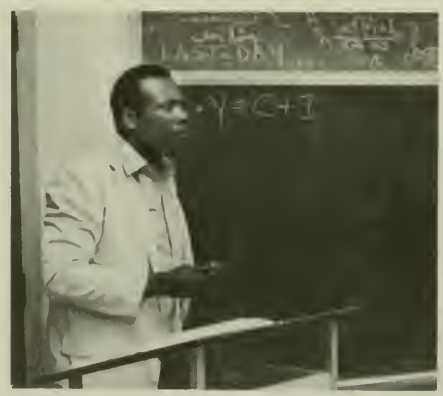
Counselor, Secondary, & Professional Education
Early Childhood, Elementary Education, & Reading
Instructional Media
Special Education

SCHOOL OF HEALTH SCIENCES

Communicative Disorders
Health
Nursing
Physical Education

SCHOOL OF MUSIC

Instrumental Music
Keyboard Music
Music Education
Music History & Literature
Music Theory & Composition
Vocal & Choral Music


Y=C+I

PROGRAMS OF STUDY AND COURSE OFFERINGS

For the convenience of readers, the arrangement of course offerings is alphabetical by department or area of study.

Students may obtain a typical sequence of courses for any of the programs from the offices of the appropriate school or department.

All courses, course substitutions, and course sequences are subject to change.

Note: Because of the revision of the General Education Requirements in 1980, new students should make a point of checking with their major academic advisors and the Office of Academic Services for up-to-date information on requirements.

Accounting

Eugene C. Hassler, *Chairperson*
ASSOCIATE PROFESSORS: Hassler, A. Naggar
ASSISTANT PROFESSORS: Fackler, Galbraith, Smith

The Department of Accounting offers a full program of accounting courses designed to prepare a student for entrance into the field of professional accounting; public, private or governmental. Students successfully completing the curriculum should be adequately prepared to take the Certified Public Accountant and Certified Management Accountant examinations.

BACHELOR OF SCIENCE IN BUSINESS ADMINISTRATION

Accounting Concentration

1. General Requirements (Includes ECO 131*, see appropriate curriculum guidance sheet) 51 s.h.
(see pages 58-60)
2. Business and Economics Core 39 s.h.
ECO 132*, ACC 201*-202*, BLA 201*, ECO 251-252, MKT 301*, MGT 301*, FIN 325, MKT 327, MGT 303, ECO 335, MGT 405
3. Other courses required by the Business Program: CSC 101, MAT 107. These courses satisfy and are included under general requirements.
4. Other course required—MAT 108 3 s.h.
5. Accounting Major—ACC 301*-302*, ACC 303*, and two of the following three courses *must* be taken: ACC 401*, ACC 403*, ACC 405* 15 s.h.
6. Economics or Business Electives 9 s.h.
7. Free Electives 12 s.h.
(*A minimum grade of C must be achieved in *all* accounting courses. Accounting majors will usually take two additional accounting courses in No. 6 of the Economics and Business Electives.)

COURSE DESCRIPTIONS

ACCOUNTING
Symbol: ACC

The objective of the accounting concentration is to prepare students for accounting careers in business, for the CPA examination, and for the private practice of accounting.

201 Principles of Accounting I (3) Introduction to financial accounting. A conceptual approach to recording, summarizing, presentation and evaluation of the financial affairs of a business firm.

202 Principles of Accounting II (3) Introduction to management accounting. Accumulating, processing and interpretation of financial data as an input for managerial decisions of a business firm. PREREQ: ACC 201.

301 Intermediate Accounting I (3) Analysis and evaluation of assets, liability, and capital account. Problems of income measurement and recognition. PREREQ: ACC 202.

302 Intermediate Accounting II (3) Continuation of BAC 301. PREREQ: ACC 301.

303 Cost Accounting I (3) Techniques of product unit cost determination and uses of cost data in managerial decisions. PREREQ: ACC 202.

304 Cost Accounting II (3) Continuation of ACC 303. PREREQ: ACC 303.

401 Auditing (3) Introduction to auditing as a tool for verification of the fair presentation of financial statements. PREREQ: ACC 302.

403 Federal Taxation (3) A study of individual and federal income taxes, with some business

application. Emphasis on tax planning for minimization of tax liability. PREREQ: ACC 202.

404 Federal Taxation II (3) A study of the principles of federal income taxation on corporations and corporate distributions, partnerships, estates, and trusts. Emphasis is on tax planning and researching complex problems. PREREQ: ACC 403.

405 Advanced Accounting (3) In depth study of business combinations and consolidations, government accounting and other specialized topics. PREREQ: ACC 302.

407 Not-For-Profit and Governmental Accounting (3) A study of accounting principles and procedures of not-for-profit and governmental organizations. The course includes accounting for federal government, state and local governments, hospitals, colleges and universities, public schools, and charities. PREREQ: ACC 202.

410 Independent Studies in Accounting (1 to 3) Special research projects, reports, readings in accounting. Open to seniors only. PREREQ: instructor's approval.

American Studies

Perry F. Hoberg and Richard J. Webster, *Coordinators*

Students are introduced to a broad spectrum of American culture, encouraged to study an area in depth and to develop career interests through concentrations in American art history, Black studies, ethnic studies, historic preservation, environmental studies, journalism and museum studies. An optional internship provides on-the-job experience.

BACHELOR OF ARTS—AMERICAN STUDIES

1. General Requirements see pages 58-60	51 s.h.
2. Foreign Language/Culture Requirements	0-15 s.h.
3. Required Core	23 s.h.
Proseminar and Field Experience (AMS 300)	3 s.h.
American Literature I-II (LIT 200-201)	6 s.h.
History of the United States I-II (HIS 151-152)	6 s.h.
Material Culture of U.S. I, II, or III (AMS 301, 302, or 303) (choose any two)	6 s.h.
Senior Thesis or Project (AMS 400) or American Studies Internship (AMS 415, 416)	3-12 s.h.
4. Elective Core Five American-topic courses are to be taken in Anthropology, Art, Government and Planning, History, Literature, Music, Philosophy, Sociology, with no more than two courses from one discipline.	24-33 s.h.
5. Elective Concentration Enough courses to insure that a minimum of 128 s.h. are taken. Each American Studies major must submit for approval a proposed course of study at the beginning of the junior year. For guidance consult either American Studies Program coordinator.	

COURSE DESCRIPTIONS
AMERICAN STUDIES
Symbol: AMS

AMS 300 Proseminar and Field Experience (3) Orientation to a methodology and bibliography of American Studies as an interdisciplinary investigation and practical experience through fieldwork.

AMS 301 Material Culture of U.S. I: Art and Images (3) Colonial period. Cultural approach to development of American values related to visual expression and imaging. Cross-study analysis of the impact of image and object on folk and elite traditions interacting with Indian culture.

AMS 302 Material Culture of U.S. II: Art and Images (3) 19th century. Emphasis on impact of national expansion and industrialization on architecture, technology, painting, household furnishings.

AMS 303 Material Culture of U.S. III: Art and Images (3) 20th century. Art movements are related to the changed social climate generated by technological materialism. Dehumanization and the development of a new humanism. Particular focus on the influence of youth and counterculture.

AMS 305 American Decorative Arts (3) Study of decorative and utilitarian objects of the American household environment from Colonial period through World War I.

AMS 400 Senior Thesis or Project (3) A concluding "statement" incorporating the interdisciplinary generalist approach.

AMS 401 Independent Studies (1-3) An opportunity to pursue alternative outside-the-classroom study projects; field work in community resources, etc.

AMS 415, 416 American Studies Internship (3-6) Cooperative service-learning experience at community agency, business, or institution.

Anthropology and Sociology

Patrick W. Luck, *Chairperson*

PROFESSORS: Becker, Samuelson

ASSOCIATE PROFESSORS: Greisman, Luck, Murphy

ASSISTANT PROFESSORS: Cowen, Monos, Stoller, Witthoft

The Department of Anthropology and Sociology offers three programs leading to the Bachelor of Arts degree and, in cooperation with the faculty of teacher education, a program leading to the Bachelor of Science in Education.

1. The B.A. in ANTHROPOLOGY focuses on man's biological evolution; on the origin, development and integration of human cultures; and on the interrelationship of biological and cultural factors in the etiology of human behavior.
2. The B.A. in SOCIOLOGY focuses on understanding the processes involved in the creation, maintenance and evolution of social structure, and on the impact of diverse structural forms on individual behavior.
3. The B.A. in ANTHROPOLOGY-SOCIOLOGY focuses on the interdisciplinary study of social anthropology/comparative sociology, drawing upon offerings in both sociology and anthropology to develop an analytic understanding of the dialectic of social structure and culture.
4. The B.S. in EDUCATION: COMPREHENSIVE SOCIAL STUDIES is for students interested in pursuing a concentration in anthropology or sociology while earning state certification to teach secondary school social studies.

Majors in the three B.A. programs should consult the appropriate department handbook and their advisor for current requirements. Students planning to major in one of these programs are advised to take ANT 102 and SOC 200 no later than their sophomore year. A grade of at least a B in each of these courses is necessary for admittance. Application for admission is made on forms available from the department office.

Students planning to pursue the B.S. in Education: Comprehensive Social Studies should consult during the freshman year with both their advisor in this department and their professional studies advisor in the Department of Secondary Education and Professional Studies.

REQUIREMENTS COMMON TO THE B.A. PROGRAMS

1. General Requirements, see pages 58-60 — 51 s.h.
2. Foreign Language/Culture Requirement — 0-15 s.h.
3. Limited electives chosen under advisement. — 18 s.h.
   (Consult department. These electives are currently being reviewed by the college.)
4. Major Requirements — 60 s.h.

BACHELOR OF ARTS—ANTHROPOLOGY

1. Required Core Courses — 9 s.h.
   ANT 101, 103, 495 (ANT 102 under social science core)
2. Specialization Requirements — 12-21 s.h.
   Four to seven courses in anthropology
3. Cognate Requirements — 15 s.h.
   LIN 203; additional courses outside of anthropology approved by the student's advisor.
4. Free Electives — 15-24 s.h.

BACHELOR OF ARTS—SOCIOLOGY

1. Required Core Courses — 15 s.h.
   SOC 300, 322, 403, 421, 492
2. Specialization Requirements — 18 s.h.
   Any six advanced courses in sociology.
   (SOC 235 may not be included.)
3. Career Preparation Sequence — 15 s.h.
   Five non-sociology courses approved by the student's advisor
4. Free Electives — 12 s.h.

BACHELOR OF ARTS—ANTHROPOLOGY—SOCIOLOGY

1. Anthropology-Sociology Core Courses — 6 s.h.
   ANT 341, SOC 302
2. Anthropology — 12 s.h.
   Two topical and two area courses in ethnology, selected in consultation with the student's advisor.
3. Sociology — 12 s.h.
   One methodology and three topical (institutional or theoretical) courses, selected in consultation with the student's advisor.
4. Seminar — 3 s.h.
   ANT 490
5. Cognates — 12 s.h.
   Four courses selected in consultation with the student's advisor.
6. Free Electives — 15 s.h.

BACHELOR OF SCIENCE IN EDUCATION COMPREHENSIVE SOCIAL STUDIES: ANTHROPOLOGY OR SOCIOLOGY (concentration)

Students interested in teaching secondary school social studies may pursue a concentration in anthropology or sociology while earning state certification and the Bachelor of Science degree. See description under COMPREHENSIVE SOCIAL STUDIES: B.S. IN EDUCATION, page 193.

MINOR CONCENTRATIONS

Students may minor in any of the three following programs. A minimum of 18 semester hours is required. Elective courses are selected in consultation with the student's minor advisor.

Anthropology Minor

1. Required Courses — 9 s.h.
   ANT 102, either ANT 101 or ANT 103, and one 400 level course in anthropology
2. Elective Courses — 9 s.h.
   Three other courses in anthropology

Sociology Minor

1. Required Courses — 9 s.h.
   SOC 200, 300, 322
2. Elective Courses — 9 s.h.
   Three other courses in sociology

Anthropology-Sociology Minor

1. Required Courses — 12 s.h.
   ANT 102, 341 and SOC 200, 341
2. Elective Courses — 6 s.h.
   Two other 300 or 400 level courses in either anthropology or sociology

COURSE DESCRIPTIONS

ANTHROPOLOGY

Symbol: ANT

PRIMARILY FOR FRESHMEN AND SOPHOMORES

101 Introduction to Anthropology: Biological (3) Fundamentals of human biology, evolution, and the prehistoric development of culture. Spring, odd years.

★ 102 Introduction to Anthropology: Cultural (3) Comparative analysis of culture systems. Fall, spring, summer.

★ 103 Introduction to Anthropology: Archaeology(3) Interpretation of culture through analysis of archaeological remains. Spring, even years. Summer.

113 Archaeological Field Techniques (3) Implementation of archaeological principles and theory in laboratory and field studies. PREREQ OR CONCURRENT: ANT 103. Summer.

★ Approved distributive requirement course

120 Cultures of Ethnic Groups in America (3) Survey of the cultural history and traditions of ethnic groups in America. Fall, odd years.

140 Folklore in Society (3) Survey of basic American folklore genres. Emphasis on folklore as process, tradition, and as an element of culture. Fall, even years.

FOR SOPHOMORES AND UPPERCLASSMEN

202 World Ethnology (3) Survey of the social organization, belief systems, and cultures of selected peoples. PREREQ: ANT 102 or permission of instructor. Spring, even years.

260 (also HIS 353) Artifacts and Culture (3) See HIS 353. PREREQ: ANT 102.

280 Practicum in Museum Techniques I (3) Exploration of techniques of cataloging, conserving objects, and of designing and setting up exhibits. Involvement in actual museum work. PREREQ: ANT 102 or permission of instructor. Fall, odd years.

FOR UPPERCLASSMEN

A. BIOLOGICAL ANTHROPOLOGY

310 **Human Paleontology** (3) Evolutionary thought; origin and antiquity of the primates; fossil man and living races. PREREQ: ANT 101. (Some background in biology recommended.)

B. ETHNOLOGY: AREA COURSES

320 **American Indian** (3) Ethnology of North America. PREREQ: ANT 102. Fall, even years. Summer.

321 **American Indian Today** (3) Native Americans in contemporary Anglo-America. PREREQ: ANT 102 or permission of instructor. Spring, odd years. Summer.

322 **Ethnology of Central America** (3) Survey of the modern cultures of Central America: relationships to ancient peoples; the process of modernization in this area. PREREQ: ANT 102.

326 **Cultures and Peoples of Sub-Saharan Africa** (3) Examination of the cultures and societies of Black Africa. PREREQ: ANT 102. Spring, even years.

327 **(also HIS 302) Cultures and Peoples of India** (3) See HIS 302. PREREQ: ANT 102.

329 **Problems in Ethnology** (3) Survey of the ethnographic literature pertaining to specific geographic regions. Area of focus to be announced in advance. PREREQ: ANT 102. Fall, even years.

C. ETHNOLOGY: TOPICAL COURSES

341 **Social Organization** (3) Study of social groups, their structure and functioning. PREREQ: ANT 102. Spring, odd years.

342 **Political Anthropology** (3) Analysis of tribal and peasant political systems. PREREQ: ANT 102. Fall, odd years.

343 **Economic Anthropology** (3) Analysis of tribal and peasant economic systems. PREREQ: ANT 102. Spring, odd years.

344 **Magic, Religion, and Witchcraft** (3) An analysis of supernaturalistic ideology and ritual in both tribal and civil society. PREREQ: ANT 102. Spring, even years. Summer.

345 **Culture and Personality** (3) Study of relationship between culture systems and personality. PREREQ: ANT 102. Fall, even years.

346 **Culture Change** (3) Empirical and theoretical study of culture change. PREREQ: ANT 102. Fall, even years.

350 **(also Art 350) Primitive Art** (3) See ART 350. PREREQ: ANT 102.

D. ARCHAEOLOGY

360 **Historical Archaeology** (3) Historical research through archaeology. Chester County is emphasized through local research projects. PREREQ OR CONCURRENT: ANT 103. Summer.

362 **Archaeology of Central America** (3) The archaeological record of Central America, covering the significant features of each culture area from modern Mexico to Panama. PREREQ: ANT 103.

ADVANCED AND SENIOR COURSES

405 **Topical Seminar in Anthropology** (3) Selected topics in the subdisciplines of anthropology. Topics announced in advance. Juniors and seniors only. Spring.

410 **Independent Studies in Anthropology** (1 to 3) Special research projects, reports, readings in anthropology. Juniors and seniors only. PREREQ: Permission of department chairperson. Fall, spring, summer.

459 **History of Ethnological Theory** (3) Development of ethnological theory with emphasis on the nature of explanation in ethnology. PREREQ: Six hours in ethnology and junior or senior standing. Fall.

490 **Seminar in Social Anthropology** (3) History and theory of social anthropology. PREREQ: Six hours in ethnology and six hours in sociology. Seniors only. Spring.

495 **Senior Seminar in Anthropology** (3) Discussion and supervised research designed to integrate conceptual and methodological skills. The research paper for the seminar must be acceptable as a required departmental senior research paper. Senior anthropology majors only. Fall.

SOCIOLOGY
Symbol: SOC

PRIMARILY FOR FRESHMEN AND SOPHOMORES

135 **Explorations in Human Relations** (1) Developing awareness of self and other through understanding values, attitudes, and feelings related to race, ethnicity, sexism, and differing life styles. (A course for full-time students offered as part of the college Orientation Program). Summer, spring.

★200 **Introduction to Sociology** (3) Fundamentals of the sociological perspective on human behavior. Fall, spring, summer.

235 **Racial and Ethnic Understanding** (3) A human relations course designed to facilitate interracial and inter-ethnic understanding. Fall, spring, summer.

240 **Sociology of the Family** (3) Comparative, historical, and cross-cultural analysis of the family institution. Fall, spring, summer.

*Approved distributive requirement course

250 **Contemporary Social Problems** (3) Analysis of current social disorders; urban unrest, racial tension, poverty, addictions, crime, and mental illness. Fall, summer.

PRIMARILY FOR SOCIOLOGY MAJORS AND OTHER UPPERCLASSMEN

300 **Sociological Theory to 1920** (3) Historical development of the sociological perspective on human behavior; emphasis on the perennial issues in sociological explanation. PREREQ: SOC 200. Fall.

301 **Self and Society** (3) The emergence, maintenance, and transformation of the self in social interaction. PREREQ: SOC 200. Fall.

302 **Analyzing Social Structure** (3) Discussion of the major concepts employed in the analysis of social structure and of the impact of various features of social structure on human behavior. PREREQ: SOC 200. Spring.

322 **Methods of Sociological Research** (3) The logic of social research. Fundamentals of research design, data collection and reduction, and non-statistical analysis. PREREQ: SOC 200. Fall.

335 **Racial and Cultural Minorities** (3) Analysis of the implications of racial differences, the factors affecting prejudice and discrimination, and structural aspects of group conflicts. PREREQ: SOC 200. Spring.

341 **Social Stratification** (3) Analysis of inequalities in wealth, power, and prestige in contemporary societies. PREREQ: SOC 200. Odd years.

342 **Urban Sociology** (3) A descriptive study of the form and development of the urban community with respect to demographic structure, spatial and temporal patterns, and functional organization. PREREQ: SOC 200. Fall.

343 **Sociology of Organizations** (3) Analysis of large-scale formal organizations with emphasis on bureaucracy as the dominant form of social organization in the West. PREREQ: SOC 200. Spring.

344 **Sociology of Religion** (3) Theoretical analysis of social functions of religion; history and internal structure of religious institutions; their relationship to other institutions. PREREQ: SOC 200. Fall, odd years.

345 **Sociology of Education** (3) Sociological dimensions of educational institutions. PREREQ: SOC 200. Fall.

351 **Deviance** (3) Causes and consequences of the construction and violation of social norms. PREREQ: SOC 200. Fall.

352 **Criminology** (3) Sociological analysis of the definition, distribution, and causes of crime, and of social response to it. PREREQ: SOC 200. Fall, spring, summer.

353 **Juvenile Delinquency** (3) Theories of delinquency; evaluation of programs for its prevention and control. PREREQ: SOC 200. Spring, summer.

360 **Sociology of Culture** (3) Analysis of the major social movements that have shaped the character and future of modern man. PREREQ: SOC 200.

361 **Sociology of Medicine** (3) A sociological perspective on health, illness and medical care. PREREQ: SOC 200.

362 **Sexuality in Society** (3) The social dimensions of human sexuality. PREREQ: SOC 200. Spring, odd years, summer.

363 **Small Groups** (3) Critical survey of group techniques designed to change behavior through interpersonal or collective experience. PREREQ: SOC 200. Spring, even years.

371 **Applied Social Change** (3) Strategy and tactics of planning and guiding change in small and large-scale social systems. PREREQ: SOC 200. Spring.

376 **Sociology of War** (3) Exploration of the relationship between social structure and war. PREREQ: SOC 200. Spring.

401 **Social Change** (3) Critique of the leading models of social order and change; analysis of major transformation in Western civilization. PREREQ: SOC 200. Fall.

402 **Community Involvement Internship** (6) Field experience in agencies involved in social change. PREREQ: SOC 371, or permission of the instructor.

403 **Sociological Theory Since 1920** (3) Theories of social order. Logic of theory construction and evaluation. PREREQ: SOC 200. Senior standing recommended. Spring.

410 **Issues in Sociological Thought** (3) Analysis of several of the key philosophic issues underlying sociological thought. PREREQ: SOC 300 and/or 302, or permission of the instructor. Fall.

421 **Statistics in Sociological Research** (3) The application of statistical methods to sociological hypothesis testing. PREREQ: SOC 200. Spring.

490 **Independent Studies in Sociology** (1 to 3) Individual research projects, reports, and/or readings. Seniors only. PREREQ: permission of department chairperson. Fall, spring, summer.

491 **Topical Seminar in Sociology** (3) Special topics in theory or methodology. Topics announced in advance. Admission by permission of instructor. Juniors and seniors only.

492 **Senior Seminar in Sociology** (3) Preparation of senior research paper. Senior sociology majors only. Fall.

Art

Pamela Hemphill, *Chairperson*

PROFESSOR: Hemphill

ASSOCIATE PROFESSORS: Hawthorne, Hoberg, Lasuchin, McKinney, Sermas, Simmendinger, White

ASSISTANT PROFESSORS: Blake, Defino, Rarick, Shapiro

INSTRUCTORS: Baker, Reed

The undergraduate programs offered by the Department of Art give students the opportunity to achieve competence in the practice, theory, and history of art taking into consideration both personal and vocational needs. Each student's advisement reflects an effort to relate the general requirements to art subjects.

In addition to the formal programs listed below, alternative courses of study may be planned in conjunction with other departments. Students are encouraged to make connections between art and other subjects where appropriate to achieve vocational and personal advancement after consultation with the student's advisor.

BACHELOR OF ARTS—ART

1. General Requirements (see pages 58-60) — 51 s.h.
2. Language Requirement (see special note below) — 0-15 s.h.
3. Art Department Program Requirements (Select One Track)
   - A. Studio Art I sequence—(prepares student for graduate study and/or personal/vocational competence)
     - (1) Studio Foundation—(106, 111, 112, 206, 220, 221) — 18 s.h.
     - (2) Art History, under advisement — 12 s.h.
     - (3) Other Studio-(elect from studio offerings.) — 36 s.h.
     - (4) Senior show required

     TOTAL — 66 s.h.
   - B. Studio Art II sequence—(provides a basic concentration with the option of a second, pre-professional, concentration.)
     - (1) Studio Foundation—(106, 111, 220) — 9 s.h.
     - (2) Art History, under advisement — 12 s.h.
     - (3) Other Studio—(elect from studio offerings. See special note below) — 15 s.h.
     - (4) Pre-professional concentration-courses to be selected from another discipline (Elementary Education, Special Education, Business, Foreign Area Studies or others under advisement.) — 27 s.h.
     - (5) Senior show required

     TOTAL — 63 s.h.
   - C. Art History—(preparation for graduate study in art history or museum study)
     - (1) Art History Foundation—(350, 381, 382, 383, 384, 385, 386) — 21 s.h.
     - (2) Studio Foundation—(106, 111, 220) — 9 s.h.
     - (3) Other Art History, museum or other courses relevant to the student's concentration and interests under advisement. — 36 s.h.
     - (4) Senior project required

     TOTAL — 66 s.h.

Special Note:
Foreign language requirement for Studio I is two semesters with 3 foreign area study courses. For Studio II and Art History the requirement is to meet the level of intermediate II, 202.

Studio majors are advised to consider concentration emphasis in general categories of 2-dimensional, 3-dimensional, or inter-media, or, if the subject area permits, more specialized concentration in single or limited media.

Internships are also available in certain areas such as museums, historical societies, or institutions where art therapy or other art services may be required. A graphics internship is available.

COURSE DESCRIPTIONS
ART
Symbol: ART

101 Learning to Look: Fine Arts, Art (3) An appreciation course covering various art forms of twentieth century with emphasis on selected historical antecedents.

102 Survey of Art History (3) A general introduction to the history of western art from the earliest cave paintings to the twentieth century.

103 Art History I (3) Survey of significant art and architectural monuments from prehistory through Middle Ages.

104 Art History II (3) Continuation of ART 103 from Renaissance through twentieth century.

105 Art Workshop (3) An art workshop for non-art majors. Exploration of art materials and techniques.

106 Beginning Drawing (3) Drawing from direct observation and an introduction to ideas of perception and interpretation. Use of a variety of media.

111 Basic Design (2-D Design) (3) Experimentation with shape, space, light, color, texture in a variety of media toward developing a visual vocabulary.

112 Color and Design (2-D Design) (3) Extensive study of color theory and its application to a variety of fine and industrial art projects.

206 Intermediate Drawing (3) Work in a variety of media and methods designed to develop "aggressive seeing." Emphasis on the exploration of line as boundary to describe form and space, as gesture, as calligraphy, and for expressive qualities as a tool for working in other media. PREREQ: ART 106.

211 Graphic Design I: Lettering and Layout (3) Exploration of the design aspects of lettering and layout for communication.

212 Graphic Design II: Graphic Concepts (3) Continuation of ART 211 with emphasis on expressive possibilities of lettering and typography. Further study of production methods and use of silk-screen techniques as means of reproduction. PREREQ: ART 211, 242, or permission of instructor.

216 Beginning Painting (3) An introduction to the basic materials and techniques of the painter with emphasis on color.

217 Intermediate Painting (3) The course seeks to provide a workshop atmosphere in which the student is given the opportunity to explore the potential of the painting media. A variety of subjects and approaches are used as a starting point for a painting. Students are given individual criticism and encouraged to be personal in their approach. Use of standard materials of paint, brushes, and canvas is required.

220 Fundamentals of 3-Dimensional Design (3) An introduction to theories, processes, and elements of perception and visual design in a three-dimensional situation. Problems will be geared to problem solving rather than object-making.

221 Advanced 3-Dimensional Design (3) Experimentation with various materials toward solving problems in terms of visual elements as they relate to volumetric forms in space.

222 Beginning Sculpture (3) An introduction to the basic fundamentals of sculpture, including concepts of design, knowledge of tools and techniques, materials and processes. Project assignments to be rendered in clay, plaster, wood, and stone.

226 Water Color I (3) An introduction to the basic tools and techniques of the water-color painter. Emphasis upon transparent water color.

227 Water Color II (3) Advanced problems in water color, gouache, tempera, and mixed media.

231 Ceramics I: Basic Techniques (3) Introduction to the basic techniques of ceramics. Hand and wheel methods of construction; knowledge of clay bodies, firing, and glazing.

232 Ceramics II: Intermediate Techniques (3) Fundamental methods of creating clay forms on the wheel. Experimentation with clay bodies,

glazes, and the operation of the kiln. Design is stressed.

241 Printmaking: Introduction to Relief Printmaking (3) An introduction to the medium of print-making; linoleum cuts, woodcuts, and collographs.

242 Printmaking: Introduction to Silk-Screen Printmaking (3) An exploration of the basic techniques of silk-screen printing. Emphasis upon color and design.

243 Printmaking: Intermediate Relief Printmaking (3) Continuation of ART 241 emphasizing expressive possible techniques and their combination with other print media. PREREQ: ART 241, or permission of instructor.

244 Printmaking: Intermediate Silk-Screen (3) Continuation of ART 242 emphasizing expressive possibilities of various silk-screen techniques and their combination with other print media. PREREQ: ART 242, or permission of instructor.

245 Architectural Drawing (3) Studio experiences in layout; preparation of plans and elevations, presentations, (renderings) and architectural lettering. Use of mechanical drawing tools to help students express steps that occur from design of to realization of a structure.

250 Art in Early Childhood Education (3) For those who will work with very young children, seminar, field experience and workshop activities designed to prepare adults to help children explore, discover, manipulate, imagine, and express.

251 Art in the Elementary School (3) Workshop and seminar providing experience with a wide variety of media appropriate for use with children as well as investigation into the philosophy and psychology of children's art.

263 Art as Therapy (3) Exploration of potentials of art activity chosen for their therapeutic value in work with physically or emotionally handicapped in either educational or therapeutic milieu.

266 Introduction to Crafts (3) An introduction to varied materials with an emphasis on craft and design as a form of expression. Applicable to teaching and recreation use. Media to include clay, fibers, glass and metals.

306 Drawing III Life Drawing (3) An exploration of the abstract dynamics of figure drawing with particular application of anatomical structure to expressive design. PREREQ: ART 106, 206.

307 Drawing IV: (3) Individualized instruction is increasingly complex formal and expressive problems in drawing.

310 Graphic Design III: Trademark, Logotype (3) Experimentation with designing trademark and logotype symbols in single and multi-pattern images as applied to a variety of advertising media for private and public agencies. PREREQ: ART 211, 242, or permission of instructor.

311 Graphic Design: Independent Projects (3) Individualized instruction in design problems at an advanced level.

312 Graphic Design IV: 3-D Graphics (3) Problems in advanced design; the application of previous studies in design to specific projects. PREREQ: ART 211, 242 or permission of instructor.

316 Advanced Painting (3) Emphasis upon advanced problems in painting in a variety of techniques encouraging individual expression.

317 Painting: Studio Problems (3) Concentration upon individual work and professional competence. Group critiques and discussions.

320 Painting: Independent Projects (3) The development of a personal style is explored through a theme and its variation. Discipline and self-criticism are realized through a series of critiques and evaluations.

321 Intermediate Sculpture (3) More advanced problems in sculpture with emphasis on individual exploration of form, structure, and process. Independent projects to be rendered in choice of materials to include clay, plaster, wood, and stone.

322 Advanced Sculpture (3) Continued exploration and development of individual form and process awareness through involvement with modeling, casting, fabrication, and assemblages. In addition to clay, wood, stone, and plaster, metals and plastics will be utilized.

325 Sculpture: Independent Projects (3) Individualized instruction in advanced sculpture. Preparation for senior show.

331 Ceramics III: Advanced Techniques (3) An advanced course to develop craftsmanship and to explore clay as a means of individual expression.

332 Ceramics: Studio Problems (3) Work at an advanced level in specialized ceramic techniques.

335 Ceramics: Independent Projects (3) Individualized instruction as well as research and study in ceramic design.

341 Printmaking: Introduction to Intaglio Printmaking (3) Intaglio techniques, etching, dry point, aquatint, and engraving.

342 Printmaking: Introduction to Lithography Printmaking (3) Fundamentals of stone and plate lithography.

343 Printmaking: Intermediate Etching (3) Continuation of 341 with emphasis on expressive

qualities of the medium and its possible combination with other print media. PREREQ: ART 341, or permission of instructor.

344 Printmaking: Intermediate Lithography (3) Continuation of ART 342 with emphasis on expressive qualities of the medium and its possible combination with other print media. PREREQ: ART 342, or permission of instructor.

345 Printmaking: Independent Projects (3) Individualized instruction in depth in a selected printmaking medium.

347 Crafts: Weaving (3) Basic techniques of weaving are explored with emphasis upon fabric design and craftsmanship.

348 Crafts: Weaving II (3) Provides opportunity for the weaver to further explore and develop skills as a designer. Emphasis is placed on the interrelationship between functional materials and design processes.

349 Crafts: Weaving III (3) To resolve advanced weaving problems in projects of an individual, creative nature leading to practical application.

350 Primitive Art (Also ANT 350) (3) Analysis of primitive art as determined through ritual and myth. Focus includes ethnographic parallels to prehistory and the concept of primitivism in the West.

355 Photography in Art (3) A workshop course emphasizing the basics of slide photography.

356 Outdoor Photography (3) Art studio course with the out-of-doors as studio and subject. Development of basic photographic skills as a means of increasing personal awareness and sensitivity to photographic opportunities. Field trips are an integral part of the course.

357 The Photographer as Artist (3) Examines the creative aspects of photography and how they relate to the photographer as an artist. Production of slides in conformity with technical and creative criteria is required.

359 Resources in Art Education (3) The use of cultural and community resources in the schools with an emphasis on the teaching of art appreciation.

360 Function of the Museum in Art (3) Role and function of the museum as an educational and cultural institution; its service to school and community.

361 Museum Practice (3) Firsthand experience in museum practice through work at the Brandywine River Museum and other area museums. PREREQ: ART 360.

381 Near Eastern Art: Ancient Antiquity (3) The art and architecture of Ancient Egypt, Mesopotamia, Assyria, and Babylonia from 3000—500 B.C.

382 Art of Classical Antiquity (3) The art and architecture of the Greeks, Etruscans, and Romans.

383 Art of Middle Ages (3) The art and architecture of the European medieval world and their development from Early Christian and Romanesque art into the full flowering of the Gothic period.

384 Art of Renaissance-Baroque (3) Study of the art forms of the 15th through 17th century in Europe as they affected social and religious crosscurrents and the rise of the role of the artist in society.

385 The Romantic Rebellion (3) From David to Rodin: the rise and development of the romantic style and its struggle with orthodox classicism.

386 Modern Art (3) Analysis of major styles of 20th century art from Picasso to Painterly Realism. Particular emphasis will be placed on topics in American art developed in the New York school from 1950 to the present.

400 Art Seminar (3) Pre-requisite: Permission from the instructor. Special topics to be announced for studio and art history. Offered periodically as appropriate.

405 Russian Art (3) A history of the art and architecture of Russia from Medieval beginnings through social realism to socialist realism.

409 Weaving: Independent Projects (3) Individualized instruction and project assignments.

410 Independent Study (3) The opportunity for a student to work on an individual studio problem. Only to be taken under advisement and according to departmental policies.

411 Latin-American Art (3) An analysis of the impact of Renaissance-Baroque forms and Counter-Reformation theology on native traditions and expressions in the new world.

413 American Art (3) A survey of American painting and sculpture from Colonial times to the present.

414 Research and Methodology in Art (3) Introduction to basic research methods and the use of reference material relevant to the study of art history.

415 Art History: Independent Studies (3) Opportunity for the student to pursue a particular field of interest.

416 American Architecture: Colonial and Early Republic (3) An introduction to the rich heritage of our early American architecture. These buildings reveal tangible evidence of the life of the early colonial period and of the republic. The influence of the traditional coupled with modifications because of climate, materials, and labor reflect both provincialism and independence.

417 Modern American Architecture (3) Study of architectural forms and styles in America since the early 19th century, including a thorough analysis and consequent appreciation and understanding of the social, stylistic, and technological sources for our 19th- and 20th-century built environment.

419 Women in Art: Madonna or Model? Traces the position of the woman artist in society and its effects on their work. What role has woman played as the subject of painting through the ages? What are women artists creating today?

420 European Architecture (3) Survey of European architecture from the Norman Conquest to the 20th century.

421 Modern Architecture (3) Traces the technological sources of modern architecture from its roots in the nineteenth century through to the late twentieth century. Includes such influences as the Chicago School, the late Californians, and the Bauhaus, leading to new concepts of space, decoration and use of materials.

455 Introduction to Multi-Media (3) A workshop designed for students with some background in photography and/or sound recording techniques. Creative potentials of combining sound and various photographic arts will be explored.

485 Classical Archaeology (3) A study of Greek, Etruscan, and Roman Archaeology. Theories of archaeology are given practical application in the field. The discovery, preservation, and analysis of finds from the classical world are studied.

Astronomy (See Earth Sciences)

Biology
(See also Pre-Professional Program)

Jack Waber, *Chairperson*

PROFESSORS: Cinquina, DeMott, Dorchester, Overlease, Romig, Woodruff

ASSOCIATE PROFESSORS: Bernhardt, Brown, W., Cullen, Eleuterio, Martinez

ASSISTANT PROFESSORS: Fish, Jones, Waber, Webster

The major in biology centers about a core of courses which emphasize broad unifying principles. The foundation subjects—general biology, general botany, and general zoology—are followed by the integrative disciplines of genetics, ecology, and general physiology. Available electives provide enriching experiences in many areas of biology.

The Department of Biology offers four undergraduate degree programs:

BACHELOR OF SCIENCE—BIOLOGY

The B.S. program in biology emphasizes the practical applications of biology. It provides the student with a greater exposure to field and laboratory experiences than the other degree programs. This program can be individually tailored to provide the skills that the student needs to help achieve his or her career goals. Also, this program provides the basic preparation needed for entry into graduate or professional schools.

The requirements for this degree are: BIO 110, 115, 117, 330, 361, 370, 490, CHE 103, 104, 231, 232, CHL 103, 104, 237, CSC 101, MAT 121, 121L, 161, 162, PHY 101, 102 or 103, 104. Biology 110, 115, and 117 must be passed with a grade of "C" or better. In addition, electives totaling 24 credits are to be selected from upper division biology courses. The student will satisfy all general education and other requirements of the college.

BACHELOR OF ARTS—BIOLOGY

The B.A. program in biology provides both the liberal education and the special preparation required for careers in college teaching, government service, independent and industrial research, science-related sales and public relations, and other areas of business. This program also prepares students to qualify for admission to graduate and professional schools.

The requirements for the degree are: Thirty-five credit hours in the supportive sciences (CHE 103-104, CHL 103-104, CHE 231-232, CHL 237, PHY 103-104, MAT 121-121L, 161). Thirty-four credit hours in Biology (BIO 110, 115, 117, 330, 361, 370, 490, and nine credit hours of BIO electives). Biology 110, 115, and 117 must be passed with a grade of "C" or better; satisfy the foreign language requirement which applies to all candidates for the B.A. degree; satisfy all general education requirements of the college.

BACHELOR OF SCIENCE—CHEMISTRY-BIOLOGY

This cross-disciplinary program operated with the cooperation of the Department of Chemistry enables the student to pursue a career in such fields as marine biology, oceanography, biochemistry and environmental chemistry.

The requirements for this degree are: BIO 110, 115, 117, 330, 361, 214 or 348 or 365 or 370, CHE 103-104, CHL 103-104, CHE 231-232, CHL 237, CHE 321, CHL 321, CHE 345, CHE 471, CHL 471, CHE 491 or BIO 490. Related courses MAT 121-121L, 161, PHY 103, 104. Biology 110, 115, and 117 must be passed with a grade of "C" or better. Concentration electives totaling thirteen credits to be selected on advisement from upper division chemistry and biology courses. The student will satisfy all general education and other requirements of the college.

BACHELOR OF SCIENCE IN EDUCATION—BIOLOGY

The requirements for this degree are: Thirty-one credit hours in the supportive sciences (CHE 103-104, CHL 103-104, CHE 230, CHL 230, ESS 201, ESL 201, MAT 121L, 161, PHY 103), thirty-two credit hours in biology (BIO 110, 115, 117, 150, 330, 361, 370, 490 and six hours of BIO electives). Biology 110, 115, and 117 must be passed with a grade of "C" or better. Thirty hours of professional education courses (see page 104). Satisfy the general education requirements of the college.

COURSE DESCRIPTIONS

BIOLOGY

Symbol: BIO unless otherwise shown
(3-2) represents 3 hours lecture and 2 hours lab.

★100 **Basic Biological Science** (3) Basic principles of biology. Cell theory, energy metabolism, genetics, development, diversity of life forms, and ecology. Not open to biology majors. (2-2)

★110 **General Biology** (4) The concepts general to all living organisms such as the life of cells, genetics, evolution, ecology, and man's role in the living world. (4-2)

115 **General Botony** (4) Survey of the plant kingdom with stress on distribution, anatomy, physiology, reproduction, and economic importance of the plants from bacteria to and including the angiosperms. (3-3) PREREQ: BIO 110.

★ Approved distributive requirement course.

117 **General Zoology** (4) Principles of animal biology. Form and function of vertebrate and invertebrate animal types (3-3) PREREQ: BIO 110.

150 **Contemporary Issues in Biology Teaching** (1) Secondary science curriculum, professional organizations, academic preparation of science teachers. (1-1) May not be taken as a biology major elective.

★172 **Field Ecology and Natural History** (3) Class and field work in natural history and ecology for the prospective teacher. Identification of local organisms and pertinent ecological concepts. Not counted toward a biology major. (2-3) PREREQ: permission of department.

201 **Basic Ecology** (3) A course for non-major students. Field, forest, freshwater, and marine environments studied through field experiences. (2-2) May not be taken as a biology major elective.

203 **Current Issues in Ecology** (3) A course for non-majors dealing with the underlying ecological bases for current issues taken from the popu-

lar media during the semester in question. May not be taken as a biology major elective.

209 **Human Anatomy** (4) The organ systems of man with emphasis on gross structure. Occasional reference to microscopic structure, development, function, and pathology. Laboratory work deals with the human skeleton and dissection of the preserved cat. (3-2) May not be taken as a biology major elective.

214 **Introductory Medical Microbiology** (4) A fundamental background in principles of microbiology and the nature and epidemiology of microbial diseases. Emphasis on host-parasite interactions. Recent advances in immunology and serology. PREREQ: one semester of college chemistry (3-2)

271 **Wildlife Conservation** (3) Principles of conservation of plant and animal resources. Collateral reading assignments. PREREQ: BIO 100 or one semester of botany or zoology. May not be taken as a biology major elective.

275 **Field Botany** (3) Methods of studying plants in their natural surroundings. Use of keys, botanical manuals, and illustrated floras to identify living specimens. (2-3) PREREQ: BIO 100 or 115. Offered in spring of even years.

277 **Field Zoology** (3) Animal life in the surrounding localities. Identification, behavior, habitats, feedings, and reproduction. (2-3) PREREQ: BIO 100 or 117. Offered in fall of even years.

307 **Pathophysiology** (3) An integrated study of the processes involved in the total body systemic complex as it changes from the ordered homeostatic condition to the imbalanced diseased state. The use of disease models, with clinical considerations, strengthens the concepts. (4) PREREQ: BIO 209, 309. Offered in fall. May not be taken as a biology major elective.

309 **Human Physiology** (4) Basic human functions with emphasis on the circulatory, respiratory, and nervous systems. (3-2) May not be taken as a biology major elective.

330 **Genetics** (4) Nature of genetic material; its qualitative and quantitative variation; recombination; interaction of gene products; regulation of genetic material; its role in evolution. (3-2) PREREQ: BIO 100 or 110.

348 **Animal Development** (4) Introduction to principles of animal development with laboratory study of vertebrate embryos. (2-3) PREREQ: Bio 110, 330. Offered in spring.

357 **Comparative Vertebrate Anatomy** (3) Comparative study of the principal organ systems of selected vertebrates as to their structure and evolutionary relationships. (2-3) PREREQ: BIO 117. Offered in fall.

361 **General Physiology** (4) General principles of physiology. Concept of homeostasis; nature of protoplasm; acid-base balance; bioenergetics; electrophysiology; enzyme activity. (3-3) PREREQ: CHE 230 or 231, BIO 117, MAT 105 or equivalent.

370 **Ecology** (4) Relationship between living things and their environment approached through the study of individual ecosystems. The aquatic, forest, field, and urban ecosystems. (3-3) PREREQ: 8 hours of biology or permission of instructor.

371 **Fundamentals of Soil Ecology** (3) A field oriented course in the nature and properties of soils, their biology, classification and conservation. (2-3) PREREQ: BIO 115, 117. Offered in fall of odd years.

372 **Freshwater Flora and Fauna** (3) A laboratory and field oriented course in the identification and ecology of freshwater algae and invertebrates. (1-4) PREREQ: BIO 115, 117. Offered in fall of odd years.

377 **Entomology** (3) Insects: their structure, functions, classifications, economic importance, and biological significance. (2-3) PREREQ: BIO 100 or 117. Offered every other year.

378 **Ornithology** (3) Introduction to the birds of Pennsylvania with emphasis on field identification. Classification, migration, songs, courtships, nesting, care of young, and plumage changes. (2-3) PREREQ: BIO 100 or one semester of zoology. Offered in spring. May not be taken as a biology major elective.

409 **Internship in Biological Sciences** (8-16) A full-time or half-time, one semester work study appointment with a commercial, industrial or governmental agency. Student will be supervised jointly by the professional scientist of the agency and a faculty member of the Biology Department. PREREQ: Senior standing and approval of the department.

428 **Vertebrate Histology** (3) A study of the microscopic structure of vertebrate tissues together with considerations of their functions, their associations with each other, and their evolutionary developments. PREREQ: BIO 117 or consent of the instructor.

430-439 **Course Topics in Biology** (1-3) Courses in this series are of timely interest to the student. Topics may include biological terminology, laboratory techniques, mycology, etc. Open only to junior and senior science majors.

452 **Parasitology** (3) Biology of the principal types of animal parasites. PREREQ: BIO 117.

454 **Mycology** (3) An introductory course including a general study of the biology of fungi and a survey of the field of medical mycology. (3). PREREQ: BIO 110 plus 4 hrs. of biology.

466 Plant Physiology (3) Physiological processes of plants. Photosynthesis, respiration, intermediate, metabolism, entrance of solutes into the plant, water metabolism, and growth regulators. (2-3) PREREQ: BIO 115, CHE 230 or 231.

467 General Endocrinology (3) Anatomy and physiology of the ductless glands; role of hormones in regulating and coordinating body processes. PREREQ: college biology and organic chemistry.

471 Ecological Systems and Applications (3) Environmental profiles of lake, marine, and estuarine ecosystems. Applications of ecological principles to solution of environmental problems. (2-3) PREREQ: BIO 370, 372. Offered in fall of even years.

483 Ecological Techniques (3) Field and laboratory techniques in collection and treatment of environmental data. (2-3) PREREQ: MAT 121L. Offered in spring of even years.

484 Epidemiology (3) A general study of the epidemiology of both infectious and non-infectious diseases, including industrial and environmentally related health problems. Methods of interviewing and data collecting are also included. (3) PREREQ: BIO 214.

485 Plant Taxonomy (3) Principles of evolution as illustrated by the principles of plant taxonomy. Modern concepts of biosystematics. Practical experience in plant identification. (2-3) PREREQ: BIO 115.

487 Animal Taxonomy (3) Procedures and principles governing the classification of animals with emphasis on morphological, physiological, ecological, and ethological characters. PREREQ: college biology.

490 Biology Seminar (1) Reports on special topics and current developments in the biological sciences. PREREQ: 18 hours of biology and permission of department.

491 Special Problems in Biology (1 to 3) Tutorial course primarily for advanced undergraduate biology majors capable of independent study and research on a problem approved by the supervising instructor. PREREQ: consent of instructor.

SCB 350 Science Education in the Secondary School (3) A methods course emphasizing knowledge of curricular development and skill in planning, involving the design and execution of learning activities for all instructional modes. (2-2) PREREQ: BIO 150 for biology majors.

MARINE SCIENCE

The following courses are given at the Marine Science Consortium field stations in the summer only. For further information communicate with the Department of Earth Sciences.

MSC 110 Introduction to Oceanography (3) Physical, chemical, and biological aspect of the oceans. Emphasis on lab and at-sea assignments.

MSC 211 Field Methods in Oceanography (3) Field work on board small research vessels; use and application of standard oceanographic instruments and sampling devices. PREREQ: MSC 110 or consent of instructor.

MSC 221 Invertebrate Zoology (3) Development, reproduction, structure, function, and classification of selected marine organisms. Laboratory and field experience in collection, preservation, and classification. PREREQ: 1 year of biology or consent of instructor.

MSC 241 Marine Biology (3) Biology of marine plants and animals, field samplings, identification, and analysis. PREREQ: 1 year of biology or consent of instructor.

MSC 260 Marine Ecology (3) Relationship of marine plants and animals to physical, chemical, and biological factors; their zonation and communities. PREREQ: 1 year of biology or consent of instructor.

MSC 331 Chemical Oceanography (3) Oceanic chemical phenomena, sampling, and laboratory analysis techniques. PREREQ: MSC 110, one year of college chemistry, or consent of instructor.

MSC 342 Marine Botany (3) Marine and marine fringe plants of the Middle Atlantic coast. Techniques of collecting, identifying, and herbarium cataloging. PREREQ: a course in general biology or 1 semester of botany.

MSC 343 Ichthyology (3) Anatomy, physiology, and systematics of fish along our eastern seaboard. PREREQ: general biology or zoology or consent of instructor.

MSC 362 Marine Geology (3) Structural and sedimentary environment of the continental shelf, slopes, and ocean basins; genesis of the ocean basins. PREREQ: MSC 110 and ESS 201 or consent of instructor.

MSC 364 Physical Oceanography (3) Physical properties of the ocean; basic instrumentation in field work. PREREQ: MSC 110, PHY 103, 104, MAT 161 or consent of instructor.

MSC 420 Marine Micropaleontology (3) Paleontology of the Foraminifera (Sarcodina), Radiolaria, Diatoms, and Ostracoda. PREREQ: 1 year of geology or 1 course each in geology and biology or consent of instructor.

MSC 457 Marine Geophysics (3) Laboratory and field assignments employing a portable refraction seismograph, gravity meter, and mag-

netometer. PREREQ: MSC 110, ESS 201, 1 year of mathematics or consent of instructor.

MSC 458 Exploration Methods in Marine Geology (3) Geophysical and geological instruments and techniques used to study the topography and geology of the ocean bottom. PREREQ: ESS 201 and 1 year of mathematics or consent of instructor.

Business Administration

Angelos C. Ballas, *Chairperson*
PROFESSORS: Green, Thorson, Storholm
ASSOCIATE PROFESSORS: Ballas, Chu
INSTRUCTOR: Craven

The primary objective of the Department of Business Administration is to provide a learning system that will permit each student in the department to achieve his or her maximum potential intellectual development in his or her chosen area of study and to prepare himself or herself for a satisfying career in that field.

As an aid to the achievement of this purpose, the Department of Business Administration strives:

(1) To assist students acquire a fundamental knowledge and understanding of the framework within which our business and industrial system operates;
(2) To acquaint students with the modern techniques used by business and industry to enable them to deal effectively with the changing environment;
(3) To encourage students to develop the ability to analyze situations, to relate and classify pertinent factors, and to derive alternatives for solving problems.

BUSINESS ADMINISTRATION MAJOR CURRICULA:*

Management, Marketing, General Business

1. General Requirements (See Appropriate Curriculum Guidance Sheet) — 51 s.h.
2. Business and Economics Core — 39 s.h.
   ECO 131*-132*, ACC 201*-202*, BLA 201*, ECO 251-252, MKT*301, MGT 301*, FIN 325, MKT 327, MGT 303, ECO 335, MGT 405
   (* A minimum grade of C must be attained in each of these courses)
3. Other courses required by Business Program: — 9 s.h.
   CSC 101, MAT 107-108. These courses satisfy and are included under the general requirements.
4. Major curriculum — 15 s.h.
   a. **Management**—MGT 302, MGT 402, MGT 406, MGT 400, MGT 408
   b. **Marketing**—MKT 303, MKT 320 or MKT 322, MKT 404, MKT 408, MKT 400
   c. **General Business**—choose five from at least three of the following disciplines—Management, Marketing, Economics, Accounting, Law, Finance.
5. Business Electives — 12 s.h.
6. Free Electives to complete 128 hours at or above the 100-level.

COURSE DESCRIPTIONS

LAW
Symbol: BLA

201 American Legal System (3) The nature of law, the judicial system, civil procedure, crimes, torts, contracts, and agency from a business viewpoint.

302 Special Subjects in Business Law (3) A survey of legal subjects of practical utility in business: partnerships, corporations, real and personal property, sales, negotiable instruments, etc.

303 Legal Problems in Business (3) Special legal problems in business will be considered at length; such as consumer credit regulation, insurance, personal law relating to decedent's estates and social security, preparation for the CPA examination, etc. This course may be taken more than once (but not more than three times) for credit if the subject matter of the course is not duplicated.

MANAGEMENT
Symbol: MGT

101 Introduction to Business (3) A survey of the structure and function of the American Business System. Topics covered: forms of business organization; fundamentals of management; fundamentals of marketing; basic accounting principles and practices; elements of finance, money, and banking; business and government. Careers in business. Open to non-business majors. No credit for business majors.

301 Principles of Management (3) An introductory of the management process. The history, theory of organization; principles and functions of management, decision making, leadership and motivation.

302 Human Resources Administration (3) The study of a well-planned properly executed and efficiently evaluated approach to manpower recruitment, screening, usage, and development. Case analysis and experimental exercises to illustrate the concepts used. PREREQ: MGT 301 or consent of instructor.

303 Production and Operations Management (3) Methods analysis, work reassurement, wage incentives. Production process and system design. Plant location layout, sales forecasting, inventory, production, and quality control, to include statistical aspects of tolerances, acceptance sampling, development of control charts, PERT, and cost factors. PREREQ: ECO 251, 252.

323 Managerial Analysis, Planning and Control (3) The study of the objectives, the environment, and human, physical, and financial assets of business, to determine the most effective system to accomplish stated goals. PREREQ: MGT 301.

334 Labor Relations (3) Rise of the American labor movement. Labor legislation. Labor compensation under collective bargaining arrangements. Procedures in settling labor disputes. Organized labor's policies and practices for higher wages and improved working conditions. PREREQ: MGT 301.

400 Senior Seminar in Management (3) Students are engaged in reading and research on current developments in Management. Research project is required to help expand and deepen the horizons of the participants. PREREQ: Senior standing.

401 Entrepreneurship (3) The organization of a business venture with emphasis on the risk of the initial cooperation, and management. Consulting opportunities are provided and periodic progress report required. PREREQ: MGT 301, 302, or instructor's approval.

402 Organization Theory and Behavior (3) Study of the theoretical foundations of organization and management. The system of roles and functional relationships. Practical application of the theory through case analysis.

405 Business Policy and Strategy (3) This course is designed to integrate and apply the knowledge, theories, and techniques derived from the study of business disciplines. The case method is used to formulate improved business strategies and plans. Written reports. PREREQ: Senior standing.

406 Introduction to Management Science (3) Business problems in production, inventory, finance, marketing and transportation translated into application of scientific methods, techniques, and tools to provide those in control of the system with optimum solutions. PREREQ: MGT 401 or instructor's approval.

407 Systems Management (3) The application of systems theory and principles to the operation of contemporary organizations, with emphasis on non-quantitative methods of analysis. PREREQ: MGT 402.

408 Business and Society (3) An analysis of social, political, legal, environmental and ethical problems faced by business firms. Open to nonmajors.

410 Independent Studies in Management (1 to 3) Special research projects, reports, readings in management. Open to seniors only. PREREQ: Instructor's approval.

MARKETING
Symbol: MKT

301 Principles of Marketing (3) A study of marketing in our consumer oriented society and the management of marketing activities, including

buying, selling, promotion, physical distribution, product planning, and consumer behavior. PREREQ: ECO 131.

303 Consumer Behavior (3) Foundations of consumer behavior. Market structure and consumer behavior; purchase strategy and tactics; determinants and patterns of consumer behavior. An integrated theory of consumer behavior is sought. PREREQ: MKT 301.

320 Managing Sales (3) Source, technique, and theories applied to problems encountered in managing a sales force in the areas of administration, policy, organizational structure, personnel selection and evaluation, sales training, compensation, forecasting, establishing territories and quota, and sales analysis. Emphasis on case studies. PREREQ: MKT 301.

321 Salesmanship (3) Analysis of the selling process applied to sales calls and sales strategies, communication, persuasion, motivation, ethics, interpersonal relationships, negotiations, and professionalism. Emphasis on case studies. PREREQ: MKT 301.

322 Advertising and Sales Promotion (3) A study of advertising and and sales promotion management with a major focus on organization, media, strategy, campaigns, legal control, consumer behavior, budgeting, and the coordination of these activities with the overall marketing programs. PREREQ: MKT 301.

327 Marketing Management (3) Study of policy decision-making. Organization and analysis of marketing opportunities; policy decisions regarding product, price, marketing channels, physical distribution, advertising, and sales; marketing models and systems. PREREQ: MKT 301.

400 Senior Seminar in Marketing (3) Research in marketing. Emphasis on integrating and reinforcing principles studied in earlier courses. Research paper must meet departmental requirements. PREREQ: Senior standing or instructor's permission.

401 Marketing Channels (3) Distribution strategy; efficient planning of space, time, and distribution costs to meet consumer demand; alternatives in channel structure, policies, management, and leadership; methods for improving channel performance; channel strategy in the future. PREREQ: MKT 301.

404 International Marketing (3) Historical and theoretical background of foreign trade; world marketing environment, world market patterns; marketing organization in its international setting; international marketing management. PREREQ: MKT 301.

408 Marketing Research (3) Systematic definition of marketing problems; strategies for data collection; model building; interpretation of results to improve marketing decision-making and control. PREREQ: MKT 301, ECO 251, ECO 252.

410 Independent Studies in Marketing (1 to 3) Special research projects, reports, readings in marketing. Open to seniors only. PREREQ: Instructor's approval.

Chemistry
(See also Pre-Professional Program)

Robert F. Foery, *Chairperson*

PROFESSORS: Bravo, Durand, Foery, Mangravite, Medieros, Reynolds, Rudnick, Torop

ASSOCIATE PROFESSORS: Fenton, Williams, Witonsky

ASSISTANT PROFESSORS: A'Zary, Goudy, Magnuson, Reid

ADJUNCT PROFESSORS: Cochran, Woodward

The Department of Chemistry offers five undergraduate degree programs:

(1) The B.S. Chemistry program enables students to receive basic preparation required for the chemical careers of their choice. Such choices include college and university teaching, positions as professional chemists, research work, and various services in industry and government. In all cases, the program prepares students for graduate study in the field of chemistry.

(2) The B.S. in Chemistry-Biology-H provides the core courses required for admission to schools of medicine, dentistry and veterinary medicine. It also enables the student to pursue a career in biochemistry, and molecular biology. Students in this program must apply for admission to the Pre-Professional Program.

(3) The B.S. in Clinical Chemistry is a program which trains students for careers in hospital or private clinical chemistry laboratories. A one semester internship in a hospital clinical chemistry laboratory is a mandatory part of this program. Students completing the

program are eligible for certification as clinical chemistry technologists by the National Registry in Clinical Chemistry.

(4) The B.S. in Forensic and Toxicological Chemistry is a program which will train students interested in working in criminalistics and toxicology laboratories. The program prepares students for graduate study and specialization in these fields. A one- semester internship in a police or toxicology forensic-chemistry laboratory is a mandatory part of this program.

(5) The B.S. in Education in chemistry program prepares the student for a career in teaching chemistry in the secondary schools. The program enables the student to gain experience in the major branches of chemistry so that, with proper selection of electives, graduate work in either pure chemistry or chemical education can be pursued. Sufficient flexibility is provided so that the student may also become certified in general science.

The Department of Chemistry is accredited by the American Chemical Society, which provides its professional certification to graduates of the B.S. in Chemistry program.

Internship Program

Although internships are not a mandatory part of all chemistry programs, they are available to majors on a selective basis. Students receive varying amounts of credit based upon the number of hours spent in a work situation and upon the nature of the academic work necessary during the internship. Credit varies from three to fifteen semester hours; each eight hour workday per week is equivalent to three semester hours.

CHEMISTRY CORE COMMON TO ALL CHEMISTRY PROGRAMS

General Chemistry I-II (CHE 103-104)
Experimental General Chemistry I-II (CRL 103-104)
Calculus I-II MAT 161-162
Physics I-II (PHY 101-102)

BACHELOR OF SCIENCE—CHEMISTRY

Along with meeting the general requirements and the chemistry core, the student pursuing the Bachelor of Science in Chemistry must take the courses below:

Chemistry Concentration Requirements
CHE 231, 232, 233, 321, 341, 342, 401, 411, 471, 491
CRL 231, 232, 321, 341, 342, 471
In addition 6 credits of Chemistry electives must be taken.

Related Courses
Foreign Language (6 s.h.)
German required unless the 101-2 level has been achieved, when German through the Intermediate II level or French or Russian at the 101-2 level may be substituted.
Introduction to Computer Science
One elective in mathematics or computer science

BACHELOR OF SCIENCE—CHEMISTRY-BIOLOGY-H

Concentration Requirements for this program are:
CHE 231, 232, 321, 345, 471, 491
CRL 231, 321, 471
BIO 110, 115, 117, 330, 361
Concentration electives totaling a minimum of 13 credits, must be selected on advisement from upper division chemistry or biology courses.

Related Courses
MAT 121, 161, PHY 103-104
*See also Pre-professional Chemistry-Biology Curriculum, page 189.

BACHELOR OF SCIENCE—FORENSIC AND TOXICOLOGICAL CHEMISTRY

In addition to the general requirements and the chemistry core requirements, a student pursuing the Bachelor of Science in Forensic and Toxicological Chemistry must take the following courses:
CHE 231, 232, 321, 345, 471, 479
CRL 231, 321, 345, 371, 471
CHE 421 or BIO 364

Related Courses:
BIO 110, 309
MAT 121, CSC 141

BACHELOR OF SCIENCE IN EDUCATION—CHEMISTRY

In addition to meeting the general requirements, the chemistry core shown above, and the professional education requirements shown on page 180, the major in this program takes the following:
CHE 231, 232, 321, 341 or 345, 401, 411 or 471, 491
CRL 231, 321, 341
CSC 141 and PSY 100
Eight credits of science electives are required.

BACHELOR OF SCIENCE IN CLINICAL CHEMISTRY

In addition to the general education and chemistry core requirements, a student pursuing the Bachelor of Science in Clinical Chemistry must take the following courses:
CHE: 231, 232, 321, 341 or 345, 381, 401, 471, 481, 482, 495
CRL: 231, 321, 341 or 345, 381, 471
BIO: 110, 209, 361
MAT: 121; CSC 141

COURSE DESCRIPTIONS

CHEMISTRY

Symbol: CHE
Symbol for Chemistry Labs: CRL

★100 **Essentials of Chemistry** (4). Fundamentals of inorganic, organic, and biological chemistry as applied to the contemporary problems of society. A one semester course with laboratory exercises which best serves students pursuing careers in health and physical education.

101 **Chemistry for Nurses** (4) Topics in inorganic, organic, and biological chemistry of medical and physiological significance. Standard laboratory experiments and clinical techniques. (3 hours lecture; 2 hours lab). For diploma nurses only.

★102 **Concepts of Chemistry** (3) A broad survey course with a laboratory experience that seeks to develop an understanding of the field of chemistry through inquiry. Basic competence in scientific methods and procedures will be obtained by observing chemical reactions and studying the chemical and physical properties of a variety of compounds.

★ Approved distributive requirement course.

†103-104 **General Chemistry I-II** (3)(3) Basic laws and theories of chemistry including atomic structure, chemical bonding, oxidation-reduction, solutions, and ionic equilibria. Correlations of chemical principles and their application to modern descriptive chemistry. CHE 103 must precede CHE 104. Labs: CRL 103-104.

CRL 103-104 **Experimental General Chemistry I-II** (2)(2) Basic laboratory studies in college chemistry utilizing the quantitative approach. Semi-micro qualitative analysis and inorganic preparations. CONCURRENT OR PREREQ: CHE 103-104. CRL 103 must precede CRL 104. (1 hour recitation precedes 3 hours lab.)

230 **Introduction to Organic and Biological Chemistry** (3) A terminal course in fundamentals of organic chemistry. Structural theory or organic molecules; organic synthesis; and biological applications. Lab CRL 230. PREREQ: CRL 104.

CRL 230 **Basic Experimental Organic and Biological Chemistry** (2) Fundamental labora-

†Approved two-semester substitute for distributive requirement.

tory techniques of organic chemistry and their application to organic synthesis. CONCURRENT OR PREREQ: CHE 230.

231-232-233 Organic Chemistry I-II-III (4)(3)(3) A comprehensive study of the structure and reactions of organic molecules. 231 must precede 232 which must precede 233. Lab: CRL 232-233. PREREQ: CHE 104.

CRL 232-233 Experimental Organic Chemistry I-II (2)(2) Basic laboratory skills in organic chemistry including classical as well as instrumental techniques. Organic synthesis and modern spectrophotometric methods of identification. CONCURRENT OR PREREQ: CHE 232-233. CRL 232 must precede CRL 233.

300 Fundamentals of Radioisotope Techniques (3) **(Also PHY 300).** Biological, chemical, environmental and physical effects of nuclear radiation. Radiation detection instrumentation and radio tracer methodology. (2-2) PREREQ: CHE 104 and PHY 102 or 104.

321 Analytical Chemistry I (2) Fundamental principles of analytical chemistry. Theory of gravimetric and volumetric methods of analysis. Lab: CRL 321, PREREQ: CHE 104.

CRL 321 Analytical Chemistry I Laboratory (3) Practical experience in modern techniques of chemical analysis with emphasis on volumetric and gravimetric methods. CONCURRENT OR PREREQ: CHE 321.

341-342-343 Physical Chemistry I-II-III (3) (3) (3) The mathematical laws and theories of chemistry including thermodynamics, reaction kinetics, quantum and statistical mechanics, theory of chemical bonding and molecular structure. Lab: CRL 341-342. PREREQ: CRL 104, PHY 102, MAT 142 or MAT 162

CRL 341-342 Experimental Physical Chemistry I-II (2) (2) Laboratory exercises illustrating principles of thermodynamics, kinetics, and quantum mechanics. CONCURRENT OR PREREQ: CHE 341-342.

345 Fundamentals of Physical Chemistry (3) A survey of the fundamental topics in physical chemistry with applications to biology and medicine. Primarily for biology, chemistry-biology and pre-professional majors. Lab: CRL 345. PREREQ: CHE 232, MAT 141 or MAT 161, PHY 102 or PHY 104.

CRL 345 Basic Experimental Physical Chemistry (2) Experiments illustrating the laws of physical chemistry. Primary for biology, chemistry- biology, and pre-professional majors. CONCURRENT OR PREREQ: CHE 345.

371 Forensic Chemistry (3) Introduction to criminalistics (chemical forensic analytical techniques) with the role, functions, operations and organization of a scientific police laboratory.

CRL 371 Forensic Chemistry Lab (2) Identification and comparison of trace evidence utilizing modern instruments and classical wet methods of chemical analysis.

381 Clinical Chemistry (3) Analysis of biological fluids. Clinical significance of enzyme, electrolyte, protein, and carbohydrate analysis. Requires permission of instructor or preparation in organic chemistry and quantitative analysis. PREREQ or CONCURRENT: CHE 471, CONCURRENT: CRL 381.

CRL 381 Clinical Chemistry Laboratory (2) Lab for 381. Practical experience in analysis of biological fluids for diagnostic parameters. Nature of biological sampling, sample preservation, methodology, statistics, quality control. PREREQ or CONCURRENT: CHE 381, CHE 471, CRL 471

400 History of Chemistry (1) The history of chemistry and its predecessors from earliest times to present day.

401 Literature of Chemistry (1) Instruction in the use of a modern chemical library, reference and data acquisition, synthetic procedures and computer data bases. PREREQ: CHE 231.

402 Ethics and Human Values in Science (1) A one semester course for science majors to acquaint students with ethical problems in their professional careers.

403 Chemistry of the Environment (3) The chemistry of the atmosphere, hydrosphere, and biosphere; man's impact upon these areas. PREREQ: CHE 104. May also be offered with lab (2-2).

404 Foundations of Nutrition (3) Proteins, lipids, fats, vitamins, and minerals and their role in normal metabolism; nutrition and disease; metabolism and biochemical individuality; cultural and political aspects of nutrition. PREREQ: CHE 104 or permission of instructor.

408 Industrial Pollution (3) Applications of elementary chemical engineering to the industrial complexities of the environmental processes. Emphasis on unit operations and unit processes applicable to pollution control and abatement. PREREQ: CHE 104.

410 Advanced Independent Study or Chemical Research (3) Taken under the direct supervision of a faculty member. May be taken for two semesters for a total of six credits. PREREQ: Senior standing or permission of department chairperson.

411 Advanced Inorganic Chemistry (3) The application of modern chemical theories to inorganic substances and reactions: the chemistry of the short and long transition elements. PREREQ: CHE 104.

424 Analytical Chemistry II (2) Basic principles of applied instrumental analysis. Special emphasis on the use of spectrophotometric and electroanalytical instrumentation. Lab: CRL 424, PREREQ: CRL 321.

CRL 424 Analytical Chemistry II Laboratory (2) Practical experience in the choice and application of instrumental methods of analysis to chemical systems. CONCURRENT OR PREREQ: CHE 424.

435 Qualitative Organic Analysis (5) A laboratory course in classical and instrumental methods for identification of organic compounds. PREREQ: CRL 233, CRL 321, CHE 401, or permission of instructor. (2 hours lecture; 6 hours lab.)

436 Polymer Chemistry (3) Polymerization kinetics, rheology of polymer melts, crystallization parameters, and monomer reactivity in copolymerization. PREREQ: CHE 232.

450 Internship in Chemistry (3-18) A full or part-time work study appointment in a hospital, commercial, governmental or industrial laboratory supervised jointly by an on-site and chemistry department faculty member. PREREQ: permission of department internship committee.

471 Fundamentals of Biochemistry (3) Structure and chemistry of proteins and nucleic acids; molecular biology, physio-chemical methods for biomacromolecules, enzymes, and the molecular basis for some physiological phenomena. Lab: CRL 471. PREREQ: CHE 345 or equivalent.

CRL 471 Experimental Biochemistry (2) Laboratory exercises in the fundamentals of biochemistry. CONCURRENT OR PREREQ: CHE 471.

479 Chemical Toxicology (2) A one semester course in the environmental and physiological aspects of chemical toxicity. Special emphasis will be placed on documentation, sampling, and verification of materials. PREREQ: CRL 233, CRL 321.

CRL 479 Chemical Toxicology Laboratory (2) A one semester course in the basic principles of toxicological analysis. PREREQ: Concurrent CHE 479.

491 Seminar in Chemistry (2) Oral presentation of papers based upon laboratory or library research. PREREQ: permission of department chairperson.

SCC 370 Science and Human Values (3). A one semester course illustrating the impact of science on human thought, values, and institutions. Ethical, sociological, and psychological, aspects of science-mediated change are covered in depth.

Communicative Disorders

Michael S. Weiss, *Chairperson*

ASSOCIATE PROFESSORS: Aungst, Maxwell, Peterson, Suppan, Weiss

ASSISTANT PROFESSORS: Alson, Dempsey, Eberhart, Stigora

INSTRUCTOR: Stuart

The major in communicative disorders is designed to prepare students to provide therapy in the elementary and secondary schools of the Commonwealth and to provide students with basic knowledge of communication and communication disorders necessary for graduate work.

Upon successful completion of the program, a student may qualify for the Pennsylvania Instructional I Certificate in Speech Correction (K-12). To serve as a speech pathologist or an audiologist in a rehabilitation center, hospital, or in private practice, the student should have both a master's degree and the appropriate Certificate of Clinical Competence from the American Speech-Language-Hearing Association.

The department operates a Speech and Hearing Clinic which serves as a teaching-training facility for the academic program. The clinic provides diagnostic and therapeutic services for children and adults with speech and hearing problems. These services are available to individuals from the college as well as the surrounding communities.

BACHELOR OF SCIENCE IN EDUCATION—SPEECH PATHOLOGY

Each student must complete the following requirements:

1. General Requirements, see pages 58-60 — 51 s.h.
2. Cognate Courses — 9 s.h.
   These courses are to be selected under advisement from a Department approved list.
3. Professional Education — 30 s.h.
   EDA 241, EDF 100, EDP 250, PSY 375, PSY 425, SPP 412, SPP 470
4. Specialized Preparation — 42 s.h.
   PHY 110, SPP 101, SPP 106, SPP 107, SPP 203, SPP 223, SPP 236, SPP 323, SPP 343, SPP 346, SPP 350, SPP 351, SPP 352, SPP 471

COURSE DESCRIPTIONS

COMMUNICATIVE DISORDERS

Symbol: SPP

101 Introduction to Communication Disorders (3) An introductory survey of normal processes and disorders of speech, language, and hearing. Suitable for non-majors.

106 (also SPC 106) Introduction to Phonetics (3) Study of the sounds of the English language. Development of skill in their recognition, production, and transcription.

107 Speech and Language Development (3) Theoretical origin of speech in mankind and the development of language and speech in the individual. Normal development of speech and language is stressed.

203 Anatomy of Speech and Hearing Mechanisms (3) A study of embryology, normal development, neurology, and physiology of anatomical structures of the speech and hearing mechanisms.

223 Voice and Articulation Disorders (3) The symptomatology, etiology, diagnosis, and treatment of communication disorders associated with articulation and voice. PREREQ: SPP 101 and 106.

236 Language Disorders (3) The symptomatology, etiology, diagnosis, and treatment of language disorders in children and adults including the mentally retarded, emotionally disturbed, neurologically impaired, and hearing impaired. PREREQ: SPP 107, 223.

323 Neuromuscular Disorders and Stuttering (3) The symptomatology, etiology, diagnosis and treatment of communication disorders associated with stuttering and neuromuscular disorders. PREREQ: SPP 223 or consent of instructor.

340 Development and Disorders of Language (3) An examination of normal language development and its psycholinguistic, neurological, and social dimensions. Special education considerations for children with language disorders. PREREQ: EDA 101 or 102 is required, SPP 101 is recommended.

343 Introduction to Audiology (3) An introduction to audiology and its relationship to other medical and educational fields concerned with hearing impairments. Developmental, medical, social, physical, and psychological properties of hearing and sound are explored. Evaluative techniques are introduced with opportunity for limited practical experience.

346 Aural Rehabilitation (3) Medical, prosthetic, and educational approaches to aural rehabilitation for children and adults are considered. A comparative analysis of prevailing theories and techniques is made. A combined approach is stressed. PREREQ: SPP 343.

347 Audiometry (3) A lecture-laboratory course which explores the measurement of hearing. Opportunities to develop competencies in administering basic measures are provided during lab periods. PREREQ: SPP 343.

350 Clinical Principles in Speech and Hearing (3) A study of evaluative and therapeutic materials and methods applicable to the professional setting. PREREQ: SPP 106, 223.

351 Clinical Practicum (3) Supervised practice in the Speech and Hearing Clinic. Designed to prepare the student to evaluate and provide therapy for children and adults who have communication problems. Must be repeated if performance is not satisfactory. PREREQ: permission of instructor, and 2.50 average in Major (SPP) courses.

352 Advanced Clinical Practicum (3) PREREQ: SPP 351 and permission of instructor.

410 Independent Study (1-3) Research, creative projects, reports, and readings in speech pathology and audiology. Applicaton must be made to

advisers by students one semester in advance of registration. Open to juniors and seniors only. PREREQ: approval of department chairperson. Offered upon demand.

412 Therapy in the Public Schools (Student Teaching) (12) Observation and participation in teaching and activities related to the performance of a therapist's work in the area of speech pathology and audiology. PREREQ: satisfactory completion of all required speech, hearing, and psychology courses through the sixth semester and senior standing. Students must have at least a 2.0 cumulative average and 2.5 average in the major field.

469 Equipment Workshop (3) Evaluation, selection, use and maintenance of electronic aids for the speech and hearing clinician. Emphasis upon demonstrations and practical experience. Open to speech pathology and audiology students with senior standing. Also offered as SPP 569 for graduate credit.

470 School Language, Speech, and Hearing Programs (3) Orientation to and observation of the organization, administration, and operation of school speech and/or hearing programs (K-12). For speech pathology majors with consent of instructor.

471 Inter-Professional Seminar in Speech and Hearing (3) Explores the interrelationship between the speech or hearing therapist and members of allied professions. The course format will include having guest speakers as well as observing specialists in their employment setting. PREREQ: permission of instructor.

Computer Science
(See Mathematical Sciences)

Counselor, Secondary, and Professional Education

Harry H. Deischer, *Chairperson*

Wallace J. Kahn and George M. Thomas, *Assistant Chairpersons*

PROFESSORS: Buechele, Cleary, Deischer, Good, Thomas (George), Walters (Shirley), Williams (Thomas)

ASSOCIATE PROFESSORS: Gleockler, Gottshall, Greenberg (Saul), Holingjak, Hsu, Kahn, Leeds, Paganelli, Rahn, Silverman, Swiren

ASSISTANT PROFESSOR: Edwards

The degree of Bachelor of Science in Education, preparing the student for teaching in the secondary schools, may be earned with academic specialization in biology, chemistry, communications, earth and space science, English, French, general science, German, Latin, mathematics, physics, Russian, Spanish, or social studies (which includes concentrations in anthropology, government and politics, history and sociology). Satisfactory completion of a secondary curriculum will also qualify the student for a Pennsylvania Instructional I Certificate, which is valid for teaching the specified subject in approved secondary schools in Pennsylvania for three years. The student must choose one academic field of specialization.

BACHELOR OF SCIENCE IN EDUCATION

1.	General Requirements — Secondary Education Programs, see pages 58-60	51 s.h.
2.	Professional Education Requirements — Secondary Education	30 s.h.
	Professional Education Courses	
	EDF 100* School and Society	3 s.h.
	EDP 250* Psychology of Learning and Development	3 s.h.
	EDM 300* Introduction to Instructional Communications	3 s.h.
	EDP 351* Evaluation and Measurement	3 s.h.
	EDS 306* Principles of Teaching and Field Experience in Secondary Education	3 s.h.
	EDS 412 Student Teaching for Secondary Education, Including Practicum	12 s.h.
	Teaching Skills/Methods*	3 s.h.
		30 s.h.

3. Specialization For Secondary Teaching — See appropriate page for each field of specialization.

   Specialization in one of the teaching fields listed below is required for graduation in secondary education. The minimum semester hours which West Chester requires for each field will satisfy the teacher certification requirements in Pennsylvania. The minimum for each field of specialization may be noted in the particular B.S. in Education program given under the heading of the department.

*The student must have at least a grade of "C" in the asterisked courses in order to be admitted to EDS 412 (Student Teaching).

Secondary Teaching Fields

Biology	French	Physics
Chemistry	General Science	Russian
Communication Arts	German	Social Studies
Earth and Space Science	Latin	Spanish
English	Mathematics	

The student following the secondary education program must confer regularly with his or her professional studies advisor in the Department of Counselor, Secondary, and Professional Education, as well as with the academic advisor assigned by his respective academic department. The final certification of all students whose goal is the Bachelor of Science in Education is the responsibility of the coordinator of the School of Education.

COURSE DESCRIPTIONS

FOUNDATIONS
Symbol: EDF

100 School and Society (3) An introduction to the nature, function, scope, organization, administration, and support of the public school in American society. Offered every semester.

350 The Professional and Student Personnel Services (3) An introduction to non-adjunctive services in education. PREREQ: EDP 250. Offered in spring.

EDUCATIONAL PSYCHOLOGY
Symbol: EDP

249 Adolescent Development (3) Course focuses on the emotional, social, intellectual, moral, physical, and self-concept factors shaping human behavior with emphasis on adolescent behavior. PREREQ: PSY 100, and EDE 251 or EDE 254. Offered in fall and spring.

250 Psychology of Learning and Development (3) A study of learning in relation to the physical, social, emotional, and intellectual aspects of personality. PREREQ: PSY 100. Offered every semester.

351 Evaluation and Measurement (3) A survey of testing materials and procedures with emphasis upon interpretation and application of results for pupil guidance purposes. PREREQ: PSY 100, EDP 250. Offered every semester.

467 Group Dynamics (3) A group process course designed to help a student develop his personal effectiveness in a group situation.

SECONDARY EDUCATION
Symbol: EDS

306 Principles of Teaching and Field Experience in Secondary Education (3) Methods and strategies of teaching in secondary schools will be the core of the course. Implications of classroom management and learning and other related problems will be discussed. PREREQ: EDF 100, EDP 250, and junior standing. Offered every semester.

410 Independent Study (1-3) Special topics or projects initiated by the student which will enable her/him to do extensive and intensive study in an area of secondary education which will sharply increase her/his knowledge of secondary education. PREREQ: permission of department chairperson.

412 Student Teaching and Direction of activities (Secondary Education) Including Practicum (12) Observation and participation in teaching and all other activities relate to the teacher's work in the area of the student's specialization. PREREQ: 96 semester hours including all professional-education courses. Students must have at least a 2.0 cumulative average and a 2.0 average in the major field and at least a grade of "C" in all Secondary Education Professional Education Courses. Offered every semester.

DENTAL HYGIENE EDUCATION
Symbol: EDH

406 Dental Hygiene Field Experience (6) Field

experience for dental hygienists who are working towards certification as public school dental hygienists. Offered in spring and fall.

SECONDARY EDUCATION/SPECIAL EDUCATION (3)

Symbol: EDX

306 Principles of Teaching and Field Experience for Special Education majors.

Environmental Education

John Holingjak, *Coordinator*

Certification Program

This interdisciplinary program enables teacher-education majors to secure certification to teach environmental education. The course sequences in the program are drawn from existing curricula in the natural sciences, social and behavioral sciences, and health and physical education and permit students to graduate with dual certification. That is, their teaching certificates will be valid for environmental education as well as for their major area of study. For the additional certification in environmental education, students are required to complete four core courses and two elective courses chosen from one of the following areas of concentration: natural sciences, recreation-centered, man-centered, or curriculum-centered. Students wishing to explore this program should consult with the coordinator of environmental education.

REQUIRED CORE COURSES (as of 1979-80)

	s.h.
Conservation of Natural Resources (GEO 230)	3
Basic Ecology (BIO 201)*	4
Field Ecology and Natural History (BIO 272)*	3
Organization and Administration of Outdoor Education (EDO 420)	3
	13

ELECTIVES—two courses from one of these areas:

Group A—Natural Sciences
Field Botany (BIO 275)
Field Zoology (BIO 277)
Entomology (BIO 377)
Ornithology (BIO 378)
Earth Science (ESS 101)
General Astronomy (ESS 111)
Physical Geology (ESS 201)
Introduction to Oceanography (ESS 230)
Marine Ecology (MSC 260)

Group B—Man-Centered
Environmental Crises (GEO 232)
Introduction to Anthropology Cultural (ANT 102)
Human Paleontology (ANT 331)
Culture Change (ANT 333)
Regional Planning (GEO 214)
Introduction to Sociology (SOC 100)
Urban Siciology (SOC 336)
Urban Growth Dynamics (GEO 212)
Population Problems (GEO 210)

Group C—Recreation-Centered
Principles of Recreation (PED 250)
Camping and Outing (PED 370)
Supervised Camping Leadership (PED 467)
Arts and Crafts in Recreation (PED 367)

Group D—Curriculum-Centered
Conservation Education Curriculum (K-12) (EDO 405)
Methods in Conservation Education (EDO 410)
History of Conservation (EDO 415)
Independent Studies in Environmental Education (EDO 425)
Environmental (Outdoor) Education Workshop (EDO 411)

*Biology majors must substitute biology courses from Group A with approval of advisor.

COURSE DESCRIPTIONS
ENVIRONMENTAL
EDUCATION
Symbol: EDO

405 Conservation Education Curriculum (K-12) (3) Conservation education as it exists in the present school curriculum, and ways to integrate conservation into elementary and secondary school disciplines. Characteristics, interrelationships, and uses of our natural resources, problems and policies of industrial management in conservation as they are related to the school curriculum.

410 Methods in Conservation Education (3) Basic concepts and practices of conservation and outdoor education and their role in the school program.

411 Environmental Education Workshop (3) Each year the workshop is conducted at different geographic locations, such as Alaska and Colorado. A field-centered learning experience, the workshop includes camping trips, studies of flora and fauna, and field investigations. There is interaction with various governmental agencies as well as informal investigations of environmental problems.

415 History of Conservation (3) Development of the conservation movement in the U.S. with emphasis on the progressive adaptation of conservation to our changing social and economic order.

420 Organization and Administration of Outdoor Education (3) Basic concepts of outdoor education; the role of outdoor education in the school program; the initiation and administration of outdoor education.

425 Independent Studies in Environmental Education (3) Special research projects, reports, readings in conservation and outdoor education. Open to seniors only. PREREQ: permission of instructor.

Criminal Justice

Harold W. Metz, *Chairperson*
PROFESSOR: Francella
ASSOCIATE PROFESSORS: Metz, Seidel
ASSISTANT PROFESSORS: Anderson, Walters

West Chester's criminal justice curriculum is a broadbased interdisciplinary program combining theoretical concepts with practical aspects. It has been designed to fulfill the needs of three categories of students:

1. Those who wish to undertake a four-year program of study to prepare for careers in criminal justice.
2. Graduates of two-year colleges who desire to continue their education and obtain the bachelor's degree.
3. In-service personnel who would like to increase their professional competence by strengthening their educational background.

The program provides the competencies, understanding, and philosophy necessary for professional performance in the various fields of criminal justice. It is not designed to develop specialists in any one specific area, but students are given the opportunity to concentrate in one or two areas of special interest through their selection of electives including courses in law enforcement, security, parole/probation, corrections, criminalistics, and court administration.

An important feature of the program is the one-semester internship served at a criminal justice agency. Designed to give personal, direct experience, it affords the student the chance to put his or her theoretical knowledge to work.

BACHELOR OF SCIENCE—CRIMINAL JUSTICE

1. General Requirements	51 s.h.
2. Required Courses CRJ 100, 200, 300, 400	12 s.h.
3. Criminal Justice Electives	15 s.h.
4. Practicum (Internship) CRJ 490	12 s.h.

Enrollment in CRJ 100 and 200 is open to all students. However, enrollment in other criminal justice courses may be limited to criminal justice majors and to other students approved by the department.

MINOR—CRIMINAL JUSTICE

1. Required Courses CRJ 100, 200, 300, 400	12 s.h.
2. Criminal Justice Electives	6 s.h.
Total	18 s.h.

COURSE DESCRIPTIONS
CRIMINAL JUSTICE
Symbol: CRJ

100 History and Philosophy of Law and Justice (3) This course is intended to: (1) aid the beginning student in understanding the historical and philosophical influences upon the American criminal justice system; (2) introduce the student to a broad range of individuals, who over a period of 2,000 years have made significant contributions to the formulation and process of justice; and (3) examine and analyze various other systems of criminal justice found in divergent and dissimilar cultures.

200 The Criminal Process (3) A course designed to describe the criminal justice system from arrest through trial, appeal, sentencing, correction, and parole. The object of this course is to provide the student with a procedural framework of the criminal process.

220 Corrections (3) The purpose of this course is to provide the student with a survey and analysis of the correctional system and its processes, both a historical and geographical perspective. Emphasis will be placed on relating this survey and analysis to contemporary practice and future trends within the area of corrections.

230 Probation and Parole (3) The intent of this course is to provide the student with an introduction to, and survey of, probation and parole practices from a historical perspective. Assumptions and theories about human behavior, upon which such practices are based, and contemporary and future trends in the field will also be examined.

250 Scientific Crime Detection (3) This course will engender an appreciation of what is entailed for an individual to understand current scientific methods in the criminal justice system.

255 Criminalistics (3) To familiarize the student with the recognition of physical evidence, and its collection and processing at the criminalistics laboratory.

300 Criminal Law (3) This course will cover the principles of criminal responsibility, the purposes and limitations of criminal law, and the elements of various criminal offenses. Substantive criminal law will cover the conduct, acts, and omissions which have been designated as crimes. These acts (or omissions) plus the mental state and other essential elements that form the necessary ingredients that make up criminal action will be examined.

305 Criminal Procedure and Evidence (3) This course is an examination of the theory and application of the law and rules of evidence for the law enforcement officer. The course will develop an understanding of the reasons for the rules of evidence and a grasp of the application of the rules in case investigation and for presentation in court. This is done through a study of selected cases, statutes, and the analysis of hypothetical cases and situations.

312 White Collar Crime (3) This course analyzes the usually nonviolent criminal conduct described as official corruption, systematic crime, or violations of trust, that is characterized by calculation, deceit, and personal enrichment. The influence of organized crime is also explored.

340 Victimless Crimes (3) This course is designed to familiarize the student with the ramifications of vice control. It will cover such topics as prostitution, homosexuality, pornography,

gambling, and bookmaking, as well as historical perspectives, statutes and interpretations, a comparison of illegal operations, enforcement techniques, and legalization efforts.

350 Education and the Penal Institution (3) The students will investigate the various educational programs and facilities within penal institutions. The personnel utilized in these specialized educational programs will be studied in terms of professional and non-professional personnel, credentials held, and the demands made upon such teachers. The kinds of school facilities and curriculums will also be investigated. The inmate, as a student, will be studied with respect to similarities and dissimilarities with other student populations.

368 Private Security (3) General definition of the field of "Industrial Security" with emphasis on loss prevention and protection of assets. Identification of vulnerabilities in business and industry, and specific techniques and approaches for resolving or minimizing such problems.

369 Retail Security (3) An in-depth examination of the various facets and interests of the retail sector of our society. A review and discussion will be undertaken of security management, including selection of personnel, training, budgeting, public relations, employee relations, and their interface with safety and fire protection.

400 Case Management in Criminal Justice (3) Theory and techniques of investigation, legal significance of evidence, crime scene searches and records, preservation of evidence, leads, laboratory and technical services, locating and interviewing witnesses, surveillance and intelligence, interrogation, focusing the investigation, report writing, arresting the accused, and case preparation.

410 Independent Studies in Criminal Justice (1-3) Research projects, reports, and readings in criminal justice. Permission of department chairperson.

420 Criminal Investigations (3) Criminal investigation functions of police involving crimes of violence, crimes against property and organized crime. Police operational techniques, and applicable court decisions, in the areas of interview, search, seizure, and arrest. PREREQ: CRJ 400.

430 Interviewing and Counseling (3) Techniques of interviewing and counseling applicable to law enforcement and corrections officers. Areas of study include: the initial interview, interrogation, handling the informer, manipulative behavior of offenders, and exit interviews. Role playing and sociodrama are used.

450 Major Case Investigation (3) A model major actual case is reconstructed and reenacted, with spectators, participants, victims, witnesses, enforcement agencies, and news media included. Interviews, collection and preservation of evidence, deductions, laboratory examinations, reports, and communications are examined.

451 Practical Research (3) This course is intended to present a broad overview of research methods. It is designed to: (1) provide a practical plan for a research project, (2) acquaint the student with an acceptable proposal for evaluation and implementation, and (3) assist the student in preparing a realistic and understandable research report. It is also designed to understand more readily what research is not. Therefore, the student is exposed to the differences between term papers, research reports, theses, and dissertations.

460 Court Administration (3) A course designed to acquaint students with the problems of management of the courts.

470 Interpersonal Relations (3) This course is designed to aid a student in recognizing changes which have affected him or her and led to the behavior currently exhibited. To recognize how self-understanding leads to understanding relationships with others. The knowledge gained assists the student in relating to other persons in their personal, social, and vocational life.

485 Discretion in the Criminal Justice System (3) This course is designed: (1) to acquaint students with the methods of exercising personal discretion, (2) to emphasize the limitations of personal discretion, and (3) to examine the power of free decision or lititude of choice within the limits of the law.

490 Practicum (12) Independent study based on a vocational placement in a criminal justice agency; police, courts, defense, or corrections. The design of each placement depends on the students' previous experience and area of interest. Written biweekly reports and a major paper are required. For seniors only.

491 Practicum Seminar (3) The student will conduct an intensive research paper in an area of concentration. The subject of the research will be approved by the instructor and periodic conferences will be scheduled.

496 Criminal Justice Planning (3) This course is intended to aid in the instruction of undergraduate students who are potential candidates for future planning, evaluation or administrative positions. Given the newness of criminal justice planning, this course represents a beginning effort at a comprehensive discussion and review of justice system planning and evaluation.

Early Childhood, Elementary Education, and Reading

Carlos R. Ziegler, *Chairperson*

Patricia E. Grasty, Joseph C. Hall, George W. Maxim, *Assistant Chairpersons*

PROFESSORS: Hall, Holman, Keetz, King, Maxim, Peta, Ziegler

ASSOCIATE PROFESSORS: Brice, Chern, Christensen, Dunlap, Grasty, Habecker, Herres, Hoggard, Jacecko, Petkofsky, Radich, Zimmerman

ASSISTANT PROFESSORS: Gibson, Grafton, Hasselquist, Salup, Szabo

INSTRUCTOR: Morgan, Hasson

The Department of Early Childhood, Elementary Education, and Reading certifies teachers for elementary education (K-6), and early childhood education (NK-3).

The elementary education curriculum is designed to provide a broad background of general education, an understanding of children, and the knowledge and skills needed to teach all aspects of the elementary school program. Upon satisfactory completion of the approved program, the student will qualify for a Pennsylvania Instructional I Teaching Certificate, valid for teaching for three years in kindergarten, and grades one through six.

The early childhood curriculum is designed to provide both the liberal education and special preparation required for careers in public and private school teaching, and directorship and supervisory work in early childhood programs other than those under the auspices of the public schools. Upon satisfactory completion of the program, the student will qualify for a Pennsylvania Instructional I Teaching Certificate valid for teaching for three years in preschool, kindergarten, and grades one through three.

BACHELOR OF SCIENCE EDUCATION

(Curriculum K-6)

1. General Requirements: (51 s.h.) See pages 58-60
   Literature, philosophy, art, and Introduction to Psychology are required.
2. Professional Education: (24 s.h.) EDF 100, EDP 205*, EDM 300, EDP 351*, EDE 411*
3. Specialized Preparation: (49 s.h.) EDE 200, EDE 251*, EDE 310*, EDE 311*, EDE 312*, EDE 332, EDE 352, EDE 401, EDE 406, HED 370, LIT 350, MAT 351***, MUS 231**, PED 200, SCE 310*. A course in art.
   *Courses requiring prerequisites—check catalog.
   **Placement examination required.
   ***Prerequisites are MAT 101 and MAT 102 (unless waived by examination).
4. Elective Area (See Concentration Areas) 11 s.h.

In order to meet the degree requirements, the student must choose from concentration areas (A-C) by selecting: (1) any one of the concentrations, or (2) any combination of courses from any combination of concentrations. The teaching certificate is not affected by any chosen area except for the certification program. Outdoor Environmental Education. Concentrations in Disciplines (B) and Concentrations in Specialized Programs (C) should be pursued under advisement.

(Concentrations outside of those offered by the education department should be planned in consultation with the chairperson or assigned advisor of the specific discipline.)

(Curriculum NK-3)

1. General Requirements: (51 s.h.) See pages 54-55
   (Psychology, Anthropology/Sociology and MAT 101 are required)
2. Professional Education: (12 s.h.) EDF 100, EDP 205*, EDM 300, EDP 351*.
3. Specialized Preparation: (72 s.h.) ECE 100, ECE 101, ECE 105, LIT 352, ECE 201, ECE 202, ECE 203, HED 276, ECE 205, MUS 232, PED 449, ECE 301, ECE 302, ART 250, MAT 351A*, ECE 304, SCE 300, ECE 411.
   *Courses requiring prerequisites—check catalog.
4. Elective Areas: (5 s.h.) EDR 321, EDE 422.
   Concentration: (8 s.h.): ECE 203, EDA 241, ECE 303.
   Admission to the Early Childhood Certification Program is limited. Freshmen should apply during the first semester of their freshman year.

NOTE: The art course may count to General Requirements. The course in physical education may be used to satisfy General Requirements.

The following policies apply to all students entering the Department of Early Childhood, Elementary Education, and Reading.

INTERNAL TRANSFER STUDENTS (undeclared majors and change of majors) who desire admission into the Department of Early Childhood, Elementary Education, and Reading may apply after the completion of 30 s.h. at West Chester State College. Of the courses listed under Specialized Preparation (see catalog) only ECE 100, EDE 200, and EDE 251 may be taken for degree credit prior to formal acceptance into the department. A cumulative grade point average of 2.0 or above plus an interview are prerequisites for acceptance into the department.

STUDENTS TRANSFERRING FROM COMMUNITY COLLEGES AND JUNIOR COLLEGES who desire admission into the Department of Early Childhood, Elementary Education, and Reading may apply only with a grade point average of 2.0 or higher. Transfer credit will be granted for EDF 100, EDP 250, ECE 201, ECE 202, ECE 203, EDE 200, and EDE 251 if (a) the course descriptions are equivalent and (b) the grade is C or above. All other required courses in the professional education and specialized preparation areas will be evaluated and approved on an individual basis.

APPROVED APPLICANTS FOR STUDENT TEACHING in Early Childhood (ECE 411) and Elementary Education (EDE 411) must have earned a cumulative grade point average of 2.25 or above and a grade of C or above in each course listed in Professional Education and Specialized Preparation.

ELECTIVE (CONCENTRATION) AREAS

A. ELEMENTARY EDUCATION

Any combination of EDE courses included in Specialized Programs.

B. CONCENTRATION IN DISCIPLINES

The following areas of concentration are possible. Courses are to be selected under advisement.

Art
Bilingual Education
Creative Arts
English
Foreign Languages
Geography
Government and Politics
Health and Physical Education
History
Mathematics
Music
Psychology
Sciences
Social Sciences

C. CONCENTRATION IN SPECIALIZED PROGRAMS

Early Childhood Education*
Environmental (Outdoor) Education*
Language Arts
Reading
Urban Education

*This is a certification program.

COURSE DESCRIPTIONS
EARLY CHILDHOOD, ELEMENTARY EDUCATION, AND READING
Symbol: ECE

100 Orientation to Early Childhood (3) An introduction to the history and philosophy of Early Childhood Education. Field observations in a variety of settings provide the student with an opportunity for career decision making.

101* Child Development (0-2 Yrs.)** (3) Physical, social, emotional, and intellectual development of the child 0-2 years. Parallels are drawn from this phase of child development to students' self-development. PREREQ: PSY 100

105* Infant Learning Environment and Field Experience** (6) The study of and use of developmental tests for the diagnosis of infant needs. The relationship of developmental level to the structuring of learning environment is developed as students interact with infants in school and home settings for three hours per week.

201* Child Development (2-5 Yrs.)** (3) Physical, social, emotional, and intellectual and moral development of the child 2-5 years. Parallels are drawn from this phase of child development to students' self-development. PREREQ: PSY 100

202 Preschool Learning Environment** (3) Methods and materials for structuring the classroom environment for the child 2-5 years. Readiness skills and concepts in all curricular areas are addressed.

203 Field Experience (3 Yrs.)** (3) Students apply knowledge of theory and practice in early childhood settings with children 2-5 years. Students work with children in the field in two different experiences. Group seminars are held weekly.

204 Early Childhood Programs** (3) Study of contemporary program models in Early Childhood Education. Major trends in education of young children are defined.

210* Introduction to the Language Arts** (3) The areas of listening, speaking and writing are studied in depth. Knowledge, teaching and evaluative techniques are addressed. Introduction to the reading process and the relationship of language to reading will also be studied.

301* Child Development (5-8 Yrs.)** (3) Physical, social, emotional, intellectual and moral development of the child 5-8 years. Parallels are drawn from this phase of child development to students' self-development. PREREQ: PSY 100

304* Social Studies and Socialization of the Child** (3) A consideration of methods of instruction that best generate a social education meaningful to primary grade children. Emphasis is placed on providing a learning environment that parallels the maturation of the young child.

305* Teaching Reading (Primary Grades) and Field Experience** (6) The teaching of reading and its mastery is the focus of this course. Students apply knowledge of theories and practice in supervised field placements in schools with children 5 to 8 years. Tutoring of individual children and small groups is integrated with planning and evaluation of lessons and activities as well as remediation. PREREQ: ECE 210.

405 Administration and Supervision of Early Childhood Programs** (3) Principles of administration and supervision of programs for young children. Includes parent education and community relations.

411* Student Teaching and Practicum** (12) Three separate supervised student teaching experiences are required. Approximately five weeks of student teaching are spent in: 1) Preschool or Kindergarten, 2) First Grade, 3) Second or Third Grade. Weekly practicum sessions are scheduled by the student teaching supervisor. PREREQ: 96 semester hours including all professional education and all specialized-preparation courses and a G.P.A. of 2.25.

Symbol: EDE

200* Theory and Field Experiences in Elementary Education (3) Orientation to the curricula, processes, and structures of elementary education today. Field experiences related to course topics.

251* Child Development and Behavior (3) Emotional, social, mental, moral, physical, and self factors shaping human behavior with emphasis on child and early adolescent development. Specific application to classroom settings. PREREQ: PSY 100

253* Human Development and Behavior (3) Physical, mental, emotional, social, moral, and self factors shaping human behavior throughout the life cycle; specific application to work with individuals and groups in educational settings. PREREQ: PSY 100

254* Development in the Middle School Child (3) Characteristic development and behavior of children between 10 and 15 years of age; understanding and working with these children in educational settings. PREREQ: EDE 251, 253 or their equivalent.

*Open to Early Childhood and Elementary Education majors or permission of instructor
**Open to Elementary Education majors only
***Open to Early Childhood majors only

301 Current Trends in Elementary Education (3) Recent trends related to basic changes in elementary education.

310* Communication Skills in the Elementary School (3) Study of teaching the language skills in the elementary school: listening, speaking, and writing. Students also participate in a tutorial program in local schools. PREREQ: EDE 251

311* Introduction to Reading Instruction (3) An exploratory course investigating the reading process, learning theory and its relation to reading, readiness for reading, historical scope of and various approaches to reading. PREREQ: EDE 251

312 Reading Instruction and Practicum** (6) Focus is on mastery of the teaching of reading. Different reading programs are examined and evaluated. The student learns how to sequence the instruction of reading. Tutoring individual children and small groups is integrated with the planning of lessons. The student also learns how to evaluate pupil performance in reading and how to plan for remediation. PREREQ: EDE 311

315 Developmental Reading for the Handicapped Child (3) The focus of this course is: the study of the nature of the reading process and its relation to language development; motivation and methodology for developmental reading skills; reading programs and materials; problems in dealing with handicapped children; and practicum in reading instruction. Required course for special education majors only.

330 Instructional Programs and Strategies (3) Introduction to principles underlying the development of instructional programs in the schools. Strategies include cognitive and skill learnings and modes of teaching. Required course for special education majors only.

332* Teaching Social Studies in the Elementary School (3) Methods of teaching social studies and geography in the elementary curriculum. Techniques, current research projects, reading materials, audio-visual aids, resource persons, and field trips as tools of learning. The organization, development, and use of resource units are stressed.

352* Self And Group Processes in the Classroom (3) Analysis of self processes influencing teacher-student classroom interactions. Role of needs, defenses, motives, emotions, and early learning experiences as they shape the prospective teacher's responses to elementary children. Application of social learning and interpersonal theory. PREREQ: 251

*Open to Early Childhood and Elementary Education majors or permission of instructor
**Open to Elementary Education majors only

401* Creativity in the Classroom (3) Exploration of materials and processes of children's perceptions and behavior, aimed at encouraging the development of their critical and creative potentials.

406 Classroom Management (3) Detailed investigation into the elementary teacher's role in classroom management. Teacher influence, personality, and class interaction; class roles and expectation; seating plans; discipline; referral; the teacher's role in evaluating and identifying potential problems in children.

410 Independent Study (1-3) Special topics or projects initiated by the student which will enable her/him to do extensive and intensive study in an area of elementary education which will sharply increase her/his knowledge of elementary education. PREREQ: permission of department chairperson.

411 Student Teaching and Direction of Student Activities (Elementary Majors) Including Practicum** (12) Observation and participation in teaching and all other activities related to the teacher's work in the elementary school. Students meet once each week in a practicum session. PREREQ: 96 semester hours including all professional education courses and all specialized preparation courses and a G.P.A. of 2.25.

412 Work-Study in the Elementary School** (6) Limited practicum for pre-service teachers who have taken EDE 200, 251, 311, 312, 406. Students work for a full term in one school district under supervision. Six credits may be granted toward student teaching requirements (EDE 411). PREREQ: departmental approval.

421 Seminar in Elementary Education (3) An intensive study of some current, major developments in elementary education. Topics announced in advance. PREREQ: Senior standing and instructor approval.

422* Seminar in Reading (3) Intensive study of some current major developments in reading related to elementary education. Topics announced in advance. PREREQ: instructor approval.

423 Seminar in Communication Skills** (3) Intensive study of some current major developments in communication skills (language arts) related to elementary education. Topics announced in advance. PREREQ: instructor approval.

458* Language Arts/Reading for the Unique Child (3) An open-ended course to help the student understand the linguistically different and gifted child. The student will examine various techniques and strategies and programs for teaching those children language arts/reading.

481* Constructing Activity-Oriented Teaching

Materials for the Elementary School Classroom (3) A workshop experience for students interested in exploring the many facets of making activity-oriented learning materials for the elementary school classroom. PREREQ: EDM 300

489 Teaching Skills to Combat Sexism (3) This course is offered to create awareness in prospective teachers of extent and consequences of sex-role stereotyping at all levels of educational experience. It will develop specific skills, behaviors, classroom strategies that can eliminate effects of sexism in classrooms and students and deal effectively with emotion-laden content of combatting sex-role stereotypes.

Symbol: EDR

100 Reading and Study Skills (3) An individualized course to develop reading and study skills such as comprehension, vocabulary, speed, remembering, concentration, taking notes, mastering a text assignment, preparing for and taking examinations. Offered fall and spring semesters.

110 Developing Learning Skills (1) A course which reviews and develops the specialized learning skills such as concentrating when studying, reading a textbook assignment, taking notes, preparing for and taking examinations, which are needed to study effectively at the college level. Students who wish to review their study habits or who have special needs in the area of study skills should enroll in this course. Offered fall and spring.

320 Reading in the Content Areas (3) Understanding the reading process and the need for reading instruction at the middle and secondary school level; specific skill development; reading in the content areas; readability; evaluation. Offered fall and spring semesters.

321 Diagnosis and Remediation of Reading Problems (3) Identifying the nature and causes of reading disabilities; experience in helping a child with reading problems. Offered fall and spring semesters. PREREQ: EDE 311 or permission of instructor.

323 Reading for the Handicapped: Diagnosis and Remediation (3) Reading materials, programs, evaluations, and teaching strategies for the mentally handicapped/physically handicapped are examined and discussed. Students develop and utilize reading materials in a classroom situation. Offered spring semester. PREREQ: Permission of the instructor.

Earth Sciences

John Ehleiter, *Chairperson*

PROFESSORS: Greenberg, Reed, Widick

ASSOCIATE PROFESSORS: Casciato, Ehleiter, Hannum, Harber, Johnson

The Department of Earth Sciences offers two programs leading to the Bachelor of Science in Education. Both are designed to prepare teachers for secondary schools and are ideal for students who plan to teach the junior high school sciences.

The department also offers a program leading to the Bachelor of Science in Earth Sciences. This is a liberal arts program that prepares the student for industry and graduate studies. Individualized specialties are available within this program.

In addition, an inter-departmental program which leads to the Bachelor of Science in Chemistry-Geology is available.

BACHELOR OF SCIENCE—CHEMISTRY—GEOLOGY

1. General Requirements 42 s.h.
   (plus science courses specified below)
2. Specialized Preparation 87 s.h.
   CHE 103, CHL 103, CHE 104, CHL 104, CHE 321, CHL 321, CHE 345, CHL 345, CHE 411; PHY 103, PHY 104; CSC 101; ESS 201, ESL 201, ESS 211, ESL 211, ESS 302, ESS 303, ESS 305, ESS 313; MAT 161, and MAT 162, 3 s.h. elective in chemistry, 8 s.h.

electives in geology. Students meeting the above requirements, may take *free* electives up to the 128 s.h. minimum criterion for graduation.

BACHELOR OF SCIENCE IN EARTH SCIENCE

1. General Requirements — 42 s.h.
   (plus science courses specified below)
2. Science Cognate Core — 35 s.h.
   BIO 110, CHE 103, CHL 103, CHE 104, CHL 104, CSC 101, MAT 161, MAT 162, PHY 103, PHY 104, PHY 151, PHY 152.
3. Earth Science Required Core — 24 s.h.
   ESS 111, ESS 201, ESL 201, ESS 211, ESL 211, ESS 230, ESL 230, ESS 240, ESS 455, ESS 478
4. Concentrations — 28 s.h.

   Environment (Applied Geology)
   ESS 205, ESS 313, ESS 325, ESS 328, ESS 339, ESS 345, one ESS elective, plus a total of 7 s.h. of electives under advisement (may be outside department).

   Astronomy and Planetarium
   ESS 160, ESS 220, ESS 260, ESS 290, ESS 475, ESS 480 (1-3 s.h. in planetarium), (1-3 s.h. in observatory), 7-11 s.h. in electives outside the department under advisement.

   Oceanography
   ESS 160—Astronomy; BIO 115, 117; PHY 414, PHY 422; CHE 403; ESS 302, 305, 311, 320, 340, 450. Any five courses from at least four of the five disciplines listed above. Electives under advisement (may be outside the department)—11-13 s.h.

   Geology
   ESS 302, 303, 305, 313 or 340, 320, 330, 450 plus one 3 s.h. Geology elective under advisement.

   Student Designed
   28 s.h. (restricted electives) under advisement.

BACHELOR OF SCIENCE IN EDUCATION—EARTH AND SPACE SCIENCE

1. General Requirements — 42 s.h.
   (plus science courses specified below)
2. Secondary Education Requirements — 33 s.h.
   (including SCE 350)
3. Specialized Preparation — 54 s.h.
   BIO 110, CHE 103, CHE 104, CHL 103 or 104, CSC 101, ESS 111, ESS 201, ESL 201, ESS 211, ESL 211, ESS 230, ESL 230, ESS 240, ESS 320, ESS 455, MAT 105 and MAT 161, (students with a strong background may substitute MAT 162 for MAT 105), PHY 103 and 104. The balance of the course work must be in geology, astronomy or marine science courses.

BACHELOR OF SCIENCE IN EDUCATION—GENERAL SCIENCE

1. General Requirements — 42 s.h.
   (plus science courses specified below)
2. Secondary Education Requirements — 33 s.h.
   (including SCE 350)
3. Specialized Preparation — 54 s.h.
   BIO 110 and one BIO course other than BIO 100. CHE 103, CHL

103, CHE 104, CHL 104, CSC 101, ESS 111, ESS 201, ESL 201, MAT 105, MAT 161 (students with strong background may substitute MAT 162 for MAT 105), PHY 103, PHY 104, and one of the following ESS 211, 230, or 240. The balance of the credits are in science electives (under advisement).

MINOR PROGRAMS

1. Astronomy
   ESS 111, ESS 160, ESS 220, ESS 260, ESS 290, ESS 475, one or both of the following courses may be substituted for any of the above courses (except ESS 111): ESS 455, ESS 480 (1-3 s.h. in observational astronomy). This minor may be taken as a concentration by students in the AA program.
2. Earth Science
   ESS 101 or 201, (ESL 201 optional), ESS 111, ESS 230, (ESL 230 optional), ESS 240, one course in Earth Sciences 3-4 s.h. with approval of minor advisor. This minor may be taken as a concentration by students in the AA program.
3. Geology
   ESS 201, ESL 201, ESS 211, ESL 211, ESS 302, plus at least two courses from the following: ESS 303, ESS 305, ESS 313, ESS 320, ESS 339, ESS 340, ESS 408, ESS 450. This minor may be taken as a concentration by students in the AA program.

COURSE DESCRIPTIONS
EARTH SCIENCES

Symbol: ESS unless otherwise shown.

SCE 300 Science in the Primary Grades (3) A comprehensive coverage of the teaching of science in the pre-school and primary grades (K-3).

SCE 310 Science for the Elementary Grades (3) A course to prepare the elementary teacher for teaching science. Selected units or problems which cut across various fields of science. Methods and processes of science and available resources. PREREQ: Completion of science and mathematics general education requirements.

SCE 350 Science Education in the Secondary School (3) Philosophy, objectives, and methods of teaching science. Practical experience provided. PREREQ: A major in liberal arts or secondary education (sciences).

★101 Introduction to Geology (Formerly called Earth Science) (3) The earth's composition and history; the processes that occur on and within the earth. 2 hours lecture, 2 hours lab.

★111 General Astronomy (3) A descriptive course including the composition and evolution of solar and stellar systems. 2 hours lecture, 2 hours lab.

160 Nautical Astronomy (Celestrial Navigation) (3) Technical skills including celestial coordinates, principles of time, the navigational triangle, lines of position and star identification.

ESL 160 Nautical Astronomy Laboratory (1) Observations will be taken in the real sky and with a water horizon, and data will be reduced to determine the position of the observer.

201 Physical Geology (3) The earth's composition (minerals and rocks) and earth processes (weathering, erosion, volcanism, and diastrophism). 3 hours lecture.

ESL 201 Physical Geology Laboratory (1) 2 hours-(required with lecture).

ESS 205 Economic Geology (3) The origin, geologic and geographic distribution, limits, and production technology of mineral resources. PREREQ: ESS 101 or ESS 201, or permission of instructor.

211 Historical Geology (3) The geologic history of the earth; and the evidences for this history.

ESL 211 Historical Geology Laboratory (1) 2 hours-(required with lecture).

220 History of the Earth Sciences (3) An examination of the history of scientific thought and contributions in the area of the earth sciences. PREREQ: Completion of core requirements in science and mathematics.

230 Introduction to Oceanography (3) A survey of our present knowledge of the waters and floors of the oceans.

ESL 230 Introduction to Oceanography Laboratory (1)

*Approved Distributive Requirement Course.

240 **Introduction to Meteorology** (3) Principles governing the conditions of the earth's atmosphere; and how these principles determine weather conditions.

ESS 250 **Man and The Earth Environment** (3) A study of earth systems and man's effects on them. Evaluation of energy resources.

260 **Archeoastronomy** (3) Astronomical skills of the Babylonians, Egyptians, Greeks, Chinese, Maya, Incas, Aztecs, and the North American Indians. (2 hours lecture and 2 hours laboratory per week).

290 **Introduction to Space Science** (3) Techniques of exploration of the extraterrestrial universe and of monitoring earth from space. PREREQ: ESS 111.

302 **Mineralogy** (3) Physico-chemical principles used in the classification, identification, and origin of minerals. Field examination of local minerals. PREREQ: CHE 104, ESS 201.

303 **Intermediate Mineralogy** (3) How the petrographic microscope and x-ray diffraction are used to identify minerals. PREREQ: One course in basic mineralogy (ESS 302).

305 **Petrology** (3) Principles of rock origin identification and classification. Laboratory and field examination of rocks. PREREQ: ESS 302.

313 **Geochemistry** (3) The chemistry of the earth and its relation to geologic processes. PREREQ: CHE 104, ESS 201.

320 **Structural Geology** (3) Determination of the sequential development and the forces involved in the various structural features of the earth. PREREQ: ESS 201, 211.

325 **Engineering Geology** (3) The application of geological factors into the planning and design of engineered construction, ground water extraction, and waste disposal. PREREQ: ESS 101 or ESS 201 or permission of instructor.

328 **Environmental Geology** (3) The application of geological information to human problems encountered in the physical problems, such as flooding, earthquakes, coastal hazards, waste disposal, and land use. PREREQ: ESS 101 or 201 or permission of instructor.

330 **Introduction to Fossils** (3) Identification and study of common fossils in order to understand their life process and geologic significance. PREREQ: one course in geology.

339 **Groundwater Geology** (3) The factors that control the distribution, occurrence, and recoverability of groundwater; techniques for locting and estimating recoverable water; groundwater pollution and waste water disposal. PREREQ: ESS 201, 211.

340 **Geophysics** (3) Gravitational, magnetic, seismic (refraction and reflection), and electrical properties of rocks and minerals in the earth. Physical principles of the earth; geophysics in relation to economic deposits. PREREQ: ESS 201, and 211, PHY 102 or 104.

345 **Geology of Petroleum** (3) The geology, origin, occurrence, properties, development, and exploitation of petroleum and natural gas. The world petroleum situation as related to present and future energy demands. PREREQ: ESS 101 or 201 or permission of the instructor.

390 **Geology of the Northwestern National Parks** (4) Field course.

391 **Geology of the Southwestern National Parks** (4) Field course.

408 **Field Geology** (3) Practical experience in the techniques and tools of the field geologist PREREQ: ESS 201, 211, 305.

410 **Independent Studies** (1 to 3)

450 **Sedimentation and Stratigraphy** (4) Development of the relative geologic time, methods and techniques for the description and evaluation of the total environment of the time of formation of stratified rock.

455 **Intermediate Astronomy** (3) An analytical and qualitative analysis of selected astronomical phenomena. Such topics as: telescope optics (including photographic and photoelectric attachments), lunar and planetary orbits, stellar motions and magnitudes, galactic classifications, and distances. 2 hours lecture, 2 hours lab.

460 **Internship** (1-18) Work with industry, local state or federal government agencies under faculty supervision.

475 **Introduction to the Planetarium** (3) Principles and use of the planetarium in teaching situation. Specific projects are assigned. PREREQ: ESS 111.

478 **Earth Science Seminar** (3) Reports on special topics and current developments.

480 **Special Problems** (1 to 3) Reports on special topics and current developments in the earth and space sciences. PREREQ: consent of instructor.

490 **Fundamentals of Soil** (3) The properties of soils, edaphology, pedology: chemical, physical, and biological factors. Soil genesis and classification.

IND 101 **Unified Science I** (3) Methods of acquiring knowledge and the value systems common to all natural sciences.

IND 103 **Unified Science II** (3) A study of the grand concepts common to all the natural sciences.

Economics

Philip DeMoss, *Chairperson*
PROFESSORS: Schooler, Sylvester
ASSOCIATE PROFESSORS: DeMoss, Mohan
ASSISTANT PROFESSORS: Dunleavy, T. Naggar

The primary objective of the Department of Economics is to provide a learning system that will permit each student in the department to achieve his or her maximum potential intellectual development in his or her chosen area of study and to prepare himself or herself for a satisfying career in that field.

As an aid to the achievement of this purpose, the Department of Economics strives:
(1) To assist students acquire a fundamental knowledge and understanding of the framework within which our business and industrial system operates;
(2) To acquaint students with the modern techniques used by business and industry to enable them to deal effectively with the changing environment;
(3) To encourage students to develop the ability to analyze situations, to relate and classify pertinent factors, and to derive alternatives for solving problems.

The Department of Economics coordinates its courses with the Department of Accounting and the Department of Business Administration.

Majors in the department must consult the departmental handbook and their advisor annually for current requirements.

Two degree programs in Economics are offered:

A. BACHELOR OF SCIENCE IN BUSINESS ADMINISTRATION—ECONOMICS

1. General Requirements (Includes ECO 131* See appropriate curriculum guidance sheet) (See pages 58-60)	51 s.h.
2. Business and Economics Core ECO 132*, ACC 201*-202*, BLA 201*, ECO 251-252, MKT 301*, MGT 301*, FIN 325, MKT 327, MGT 303, ECO 335, MGT 405 (*A minimum grade of C must be attained in each of these courses).	39 s.h.
3. Other courses required by the Business Program: CSC 101, MAT 107. These courses satisfy and are included under general requirements.	
4. Other course required—MAT 108	3 s.h.
5. Economics Major—ECO 334, ECO 338, ECO 340, ECO 343, ECO 348.	15 s.h.
6. Economics or Business Electives	9 s.h.
7. Free Electives	12 s.h.

B. BACHELOR OF ARTS—ECONOMICS

1. General Requirements See pages 58-60	51 s.h.
2. Foreign Language Requirement	0-15 s.h.
3. Social Science Electives*	9 s.h.
4. Economics Major Requirement ECO 131-2, ECO 340, MAT 107-8, ECO 335, ECO 348, ECO 251-2 Additional Departmental Courses	36 s.h.
5. Electives (6 s.h. of electives may be economics courses)	5-20 s.h.

*Consult with Department. These are currently being reviewed by the College.

COURSE DESCRIPTIONS
ECONOMICS
Symbol: ECO

★101 **Principles of Economics—Survey** (3) Basic principles underlying production and consumption activities in our modified capitalistic economic system, from the aggregate as well as individual and sectoral standpoints. Issues include competition, unemployment, inflation, economic growth, and alternative economic systems.

†131 **Principles of Economics 1 (Micro)** (3) Principles underlying use and allocation of scarce productive resources. Consumption and production activities. Value, price, and income distribution. Considerations of economic efficiency and welfare.

†132 **Principles of Economics 11 (Macro)** (3) National income and its measurement. The determination of price levels, output, and employment. Money and credit, expenditures, and economic stability. Government fiscal and monetary policy.

251 **Quantitative Business Analysis I** (3) Considers the fundamental ideas of statistical theory that are appropriate for solving problems in the fields of business and economics. Topics include: descriptive statistics, probability theory, sampling and estimation, hypothesis testing. PREREQ: MAT 108.

252 **Quantitative Business Analysis II** (3) Continuation of ECO 351. Topics include hypothesis testing, simple multiple regression analysis, and Bayesian inference. PREREQ: ECO 251.

333 **Consumer Economics** (3) Major kinds of economic decisions required of consumers; an evaluation of the social and economic consequences of those decisions.

334 **Labor Economics** (3) Objectives sought and policies followed by labor and management in modern industrial relations in the United States Collective bargaining processes and the role of government. PREREQ: ECO 132.

335 **Money and Banking** (3) A survey of money, credit, and prices, emphasizing their effects on economic stability. The Federal Reserve System and its effect on credit control. PREREQ: ECO 132.

336 **Regulation of Competition** (3) Background and development of public policies which directly modify the free enterprise economy of the United States. Evaluation of policies which change the nature and extent of competition. PREREQ: ECO 131.

*Approved Distributive Requirement Course.

†ECO 131-132: Approved two-semester substitute for distributive requirement.

337 **Economic Growth and Development** (3) A survey and critical evaluation of alternative theories of capitalist economic development. Analysis and comparison of alternative public policies applicable to underdeveloped countries and regions. PREREQ: Junior standing.

338 **International Economics** (3) A descriptive, analytical examination of international trade, financial, and other economic relationships. The effects of public policies on these relationships. PREREQ: ECO 131 and 132.

340 **Intermediate Microeconomics** (3) A continuation and extension of the price-system analysis in ECO 131. Emphasis on the need for efficiency in the economy's use of scarce productive resources. PREREQ: ECO 131.

341 **Public Finance** (3) Government's influence on stability of national income. Nature of taxes and expenditures at the various levels of government and their effect on the allocation of resources and the distribution of income. PREREQ: ECO 132.

343 **Comparative Economic Systems** (3) Basic ideas and economic institutions of socialism, communism, and capitalism in the twentieth century; problems created by the emergence of competing systems. PREREQ: ECO 131 and 132.

345 **History of Economic Thought** (3) Origins of economic thought and comparison of the major schools of economic doctrine. Current economic and socio-political factors. PREREQ: ECO 131 and 132.

347 **Managerial Economics** (3) A course which seeks to develop managerial judgment. The premise is that technical application, to be successful, must proceed from economic feasibility. One plan is weighed against another in terms of comparative costs and revenues, return on investment, plant-replacement problems, obsolescence, and depreciation. PREREQ: ECO 131 and 132.

348 **Intermediate Macroeconomics** (3) Introduction to the theory of income, employment, and growth. Provides the tools to analysis necessary for dealing with aggregate economic problems. PREREQ: ECO 131, ECO 132, MAT 108.

350 **Urban Economics** (3) Economic aspects of such urban problems as poverty, housing, taxation, income distribution, and discrimination. Analysis of economic aspects of various proposed remedies, including urban renewal, family allowances, cooperatives, and others. PREREQ: Junior standing.

401 **Introduction to Econometrics** (3) Statistical and mathematical techniques applied to economic situations. Use of empirical data in economic analysis. PREREQ: ECO 252, ECO 131 and 132.

410 **Independent Studies in Economics** (1 to 3)

Special research projects, reports, readings in economics. Open to seniors only. PREREQ: instructor's approval.

FINANCE
Symbol: FIN

325 **Corporation Finance** (3) The organization and financing of the modern corporation. Promotion, capitalization, short-term financing, capital budgeting, distribution of earnings, expansion, consolidation, failure, and reorganization. PREREQ: ECO 131, ACC 202.

344 **Investments** (3) Problems and procedures of investment management; types of investment risks; security analysis; investment problems of the individual as well as the corporation.

370 **Problems in Financial Management** (3) Case problems in corporate financial management. Includes cases on management of current assets, obtaining short term loans, raising long term capital, capital budgeting, and divided policy. PREREQ: FIN 325.

Engineering (See Physics)

Elementary Education
(See Early Childhood, Elementary Education, and Reading)

English

David E. McKenty, *Chairperson*

William H. Henry, Jr. *Assistant Chairperson*

PROFESSORS: Brooks, Falgie, Field, Garrett, Gaunt, Green, Haviland, Henry, Kent, Kershner. McGrath, McKenty, Markow, Myrsiades, Oldsey, Taylor, Weiss, West, Ziegler

ASSOCIATE PROFESSORS: Bosworth-Fling, Browne, Bruton, Corr, Ford, Fordyce, Hunsberger, Kelleher, Kelly, McCawley, Miller, Page, Prater, Smith, Ward, Wise

ASSISTANT PROFESSORS: Boylan, Combs, Piech, Rimel, Thurbon

The Department of English offers two degree programs: the Bachelor of Arts in Literature and, in cooperation with the School of Education, the Bachelor of Science in Education. Each program is planned in consultation with an advisor.

The Bachelor of Arts in Literature prepares the student for graduate studies, journalism, publishing, editing, public relations, advertising, and other specialized careers. The required courses provide a broad foundation in literature, an introduction to writing and the study of language, and an orientation in career planning and opportunities. The wide choice of electives permits the student to structure a program compatible with his/her particular career goals and interests.

The Bachelor of Science in Education prepares the student to teach English in the secondary schools of Pennsylvania under an Instructional I Certificate. Before permission to student teach is granted, students in this program must (1) satisfy the prerequisites for student teaching listed on page 000 and (2) satisfy specific English Department requirements outlined in the *Handbook for English Majors.*

BACHELOR OF ARTS IN LITERATURE

1. General Requirements (including free electives)	44-51 s.h.
2. Language Requirement	0-12 s.h.
3. Cognate Course (History)	3 s.h.

4. Department Requirements — 27 s.h.
   Eng. 230 Introduction to Linguistics
   Lit. 260 Continental Literature I
   Lit. 261 Continental Literature II
   Lit. 230 English Literature I or one Group A course—Consult *Handbook for English Majors.*
   Lit. 231 English Literature II or one Group B course—Consult *Handbook for English Majors.*
   Lit. 200 American Literature I or one Group C course in the appropriate period. Consult *Handbook for English Majors.*
   Lit. 201 American Literature II or one Group C course in the appropriate period. Consult *Handbook for English Majors.*
   One advanced writing course
   Lit. 400 Literature Seminar
5. Department Electives — 12 s.h.
6. Professional Electives or Minor (optional) — 0-15 s.h.
7. Additional Free Electives to complete — 128 s.h.

BACHELOR OF SCIENCE IN EDUCATION—ENGLISH

130 Semester Hours

1. General Requirements, see pages 58-60 — 51 s.h.
2. Cognate Courses (History) — 3 s.h.
3. Professional Education Requirements, see page 104 — 30 s.h.
   These include ENG 390—Teaching English in Secondary Schools
4. Departmental Requirements — 27 s.h.
   LIT 260—Continental Literature I
   ENG 230—Introduction to Linguistics
   ENG 331—Structure of Modern English
   ENG 335—History of the English Language
   LIT 200—American Literature I or LIT 201—American Literature II
   LIT 230—English Literature I or LIT 231—English Literature II
   One course from Group A, B, C, or D
   One advanced writing course
   LIT 400—Literature Seminar
5. Departmental Electives — 9 s.h.
   Selected under advisement from LIT groups A-E and approved English and Humanities courses. Consult *Handbook for English Majors.*
6. Additional electives to complete — 128 s.h.

COURSE DESCRIPTIONS

ENGLISH

Symbol: ENG

000 Basic Writing (3) A preparatory course of study which emphasizes the basic grammatical, logical, and rhetorical skills that produce effective paragraphs. *This course is a prerequisite to ENG 120 for those who do not demonstrate equivalent competence. Credits earned in 0-level courses do not count towards the 128 hours of credit needed for graduation.*

030 English for Non-native Speakers Individualized instruction for the non-native speaker: conversational English, formal written English, reading and listening comprehension, and grammar.
N.B. See note under ENG 000.

120 Effective Writing I (3) An intensive course in writing which emphasizes skill in organization and awareness of styles of writing and levels of usage as ways of expressing and communicating experience.

121 Effective Writing II (3) Continues the expository writing experience offered in Effective Writing I, and explores techniques of gathering, evaluating, and selecting materials to be used in writing research papers.

122 Effective Writing II (3) An introduction to

research techniques for political science majors, emphasizing problem formulation, descriptive and causal analysis, documentary research, questionnaire survey, statistical analysis, and interview.

123 Seminar in Exposition (3) For English and communication majors. Extensive practice in basic expository and argumentative writing skills, with emphasis on language awareness.

125 Writing for English and Communications Majors (3) Introduces rhetorical modes and strategies of expository and argumentative writing, especially as applicable to the analysis of literature; requires a research paper on a literary topic.

200 Writing Improvement (1, 2, or 3) Intensive instruction to aid students experiencing serious difficulties with their writing assignments in other courses. Not open to freshmen. Pass/Fail only.

201 Advanced Writing (3) Frequent practice in expository, descriptive, narrative, and argumentative techniques, with emphasis on style. Writing is criticized and corrected in private sessions.

202-203 Creative Writing I-II (3) (3) Writing experience in the crafts of fiction, poetry, and drama.

204 Practical Prose Composition (3) Writing in various modes that authentically mirror real situations in everyday life including the world of work.

205 Writing from Experience (3) Exploration of personal history and attitudes through carefully structured composition tasks of autobiographical narrative memoir and introspective analysis.

230 (also LIN 230) Introduction to Linguistics (3) Basic concepts of language description, classification, change, reconstruction, dialectology, and sociolinguistics. (Prerequisite for all courses in English language.)

260 Mass Media in Society (3) Introduction to theory and problems of mass media and their role in American culture.

265 News Reporting (3) Principles of news reporting and practice in gathering and writing news for all media. Research, writing, and the interview.

266 Writing for Magazines and Newspapers (3) Writing for publication. Developing ideas, gathering material, writing articles for both magazines and newspapers. Marketing methods for the freelancer.

267 History of Communications (3) History and development of newspapers, magazines, documentary films, radio, and television.

268 Business Communication (3) The nature of communication within organizations. Theoretical basis and practical application.

275 Literary Editing and Publishing (3) Experience in publishing the student literary magazine *Daedalus*: editing, proofing, photographic selection and layout, printing.

276 News Editing (3) Basic principles of editing for newspapers and magazines: editing practices, critical analysis of newspaper and magazine articles, practical exercises in editing copy for print.

301 Poetry Workshop (3) The theory and practice of poetry; exploration of verse forms, prosody, metrics; practice in critical and interpretive analysis of poems written by fellow students and professional poets. The poem as a product of skilled craftsmanship.

302 Drama Workshop (3) Writing the play: possibilities and limitations of the stage. Attention to sets and costuming where relevant. Characterization by action and dialogue. Problems of establishing motivation. The play's totality in theme, character, and action. Informal readings of student work.

303 Short Story Workshop (3) Crafting the modern short story with reference to American and British models. The significance of setting, atmosphere, characterization, and theme. Discussion and some exploitation of experimental ideas in the genre.

304 Essay Workshop (3) Practice in writing the essay. Conventions and techniques of this literary form as it appears in commercial and quality magazines.

330 English Phonology (3) Phonemics and morphophonemics in English. Writing systems and phonemic-graphemic relationship in English. Historical development of English sounds. PREREQ: ENG 230.

331 Structure of Modern English (3) A detailed analysis of the modern descriptive approach to the study of English grammar and how it compares with the traditional approach. PREREQ: ENG 230.

335 History of the English Language (3) Review of the influences on the development of the English language. PREREQ: ENG 230.

339 History and Dialects of American English (3) Development of the English language in America since colonial settlement. American and British English. Pronunciation, vocabulary, and grammar of the regional and social dialects of American English. PREREQ: ENG 230.

340 Sociolinguistic Aspects of English (3) The study of language in its social context; the ethnography of communication; language and society, social classes, ethnic groups, politics, sex, and education. PREREQ: ENG 230.

350 Introduction to English as a Second Language (3) Exploration of the scope of the field types of programs, general approaches to instruction.

390 Teaching English in Secondary Schools (3) Review of language-arts requirements in secondary schools. Special reference to grade-placement with adaptation of materials, appraisal of results, and development of programs of study. PREREQ: ENG 331, 335, EDM 300, EDP 351, EDS 306.

400 Writing Seminar (3) Special topics to be announced such as Fantasy and Science Fiction, Longer Prose Works, or The Anti-Story.

410 Independent Study (3)

430 Language Seminar (3) Studies in English language and linguistics. PREREQ: ENG 230 and at least junior standing.

490-491 Writing Seminar in the Novel I-II (3) (3) A course in the writing and preparing of book-length manuscripts (novel, novella, "non-fictional" novel) with the intention of submission for publication. Also includes coverage of fictional aspects and techniques used in writing memoirs, biography, current history.

LITERATURE
Symbol: LIT

100 Practical Criticism (3) Study of and practice in the literary analysis of selected poetry, prose fiction, and drama.

101 Great American Writers (3) Major American writers from Franklin to Faulkner. Not open to English majors.

160 General Literature I (3) Western literature from Homer through Shakespeare. Not open to English majors.

161 General Literature II (3) Western literature from Shakespeare to the present. Not open to English majors.

162 Fiction (3) Basic analysis of various forms of fiction: short story, novella, novel. Interpretation based on the relationship between form and content. Not open to English majors.

163 Drama (3) An introduction to drama, extending from the classical Greek tragedy to the Theater of the Absurd. Not open to English majors.

164 Poetry (3) Analytical readings within a broad spectrum of English and American poetry from Chaucer to the present. Not open to English majors.

★165 Introduction to Literature (3) A course designed to develop awareness of literature as being central to all the arts; to increase level of literacy and critical faculties; and to broaden understanding of the human condition. PREREQ: ENG 120 or permission of the department.

200 American Literature I (3) A survey of representative American writers from Colonial times to 1860, including Bradstreet, Taylor, Franklin, Poe, Thoreau, Hawthorne, and Melville.

201 American Literature II (3) A survey of representative American writers from 1860 to the present: including Whitman, Twain, James, Crane, Eliot, Frost, Hemingway, and Faulkner.

202 Afro-American Literature I (3) Survey of Afro-American authors from the antebellum era through the first quarter of the 20th century. (Group C)

203 Afro-American Literature II (3) Continuation of LIT 202. Second quarter of the 20th century to the present. (Group C)

230 English Literature I (3) A survey of English literature from Anglo-Saxon writing through the 18th century.

231 English Literature II (3) A survey of English literature of the 19th and 20th centuries.

†260 Continental Literature I (3) Literature of continental Europe from classical times through the Renaissance.

†261 Continental Literature II (3) Literature of continental Europe from Neoclassicism to the present. (Group D)

263 Classical Mythology (3) Major classical Greek and Roman myths and their effect on western literary thought.

264 Literature and Myth (3) Traditional, anthropological, and psychoanalytic interpretations of myth in literature. (Group D)

265 Literature and Psychology (3) An examination of the relationships between literature and psychology, and readings from drama (Shakespeare, Ibsen, Albee), poetry (Poe, Browning, Eliot), and fiction (Tolstoy, Joyce, Woolf, Mann, Kafka, Faulkner). (Group E)

266 Science Fiction (3) A critical study of the science fiction novel focusing on the works of contemporary writers such as C. S. Lewis, Asimov, Heinlein, Zelazny, Niven, Anthony, Herbert, LeGuin, and Delany. (Group E)

269 The Literature of Roguery (3) A historical study of the rogue in fiction with emphasis on the satiric view of society. Among writers studied: Defoe, Thackeray, Donleavy, and Wolfe. (Group E)

*Approved Distributive Requirement Course.

†LIT 260-261: Approved two-semester substitute for distributive requirement.

270 Literature of the Cities (3) Covers a variety of responses of contemporary writers, artists, and planners to the rise of the modern city. (Group E)

272 New Fiction (3) Fiction published in the last ten years. (Group E)

274 Feminist Poetry (3) A study of poetry espousing the feminist cause and exploring the feminist response. Techniques and attitudes of such poets as Plath, Sexton, Rich, Morgan, Wakoski, and Kumin. (Group E)

275 Religious Themes in Western Literature (3) Analysis of five or six major writings in Western literature such as St. Augustine's *Confessions*, Dante's *The Divine Comedy*, Tennyson's *In Memoriam* examining the artistic use of religious themes.

290 Introduction to Film (3) A critical-analytical approach to world cinema covering film theory and the major film movements (American film, Soviet realism, German expressionism, Italian neorealism, and surrealism) from the beginning of the silent era through the development of sound up to 1959. (Group E)

291 The Contemporary Film (3) A critical-analytical approach to world cinema covering major film movements and theory since 1960. (The French New Wave, Bergman, Kurosawa, Cinema Nuovo, Estern European film, and New American film). (Group E)

292 Avant-Garde Film (3) The function of cinema in contemporary society as a socio-cultural, economic, and political object, as seen through critical analysis of experimental and documentary films. (Group E)

295 Children's Literature (3) A critical study of literature for children, setting standards for evaluation and appreciation.

297 Themes in Contemporary Literature (3) Literary topic or theme in contemporary American, English or world literature to be announced each time the course is offered.

300 Colonial and Revolutionary American Literature (3) Writers of Colonial and Revolutionary America. (Group C)

301 Folklore in America (3) A study of folklore in American life and literature, with emphasis on occupational, regional, and ethnic influences. (Group C)

302 Development of the American Novel (3) Beginnings of the American novel to Frank Norris. (Group C)

303 Introduction to Multi-Ethnic American Literature (3) American ethnic, racial, and national groups in American literature and the contributions of creative literary artists representing these cultures. (Group C)

304 American Jewish Novel (3) A study of major American Jewish novelists: Cahan, Singer, Roth, Potok, Bellow, Malamud, Wallant, and Wiesel. No knowledge of Yiddish or Hebrew necessary. (Group C)

305 Modern American Drama (3) American drama from the early 1900's to the present, with emphasis on the development of the American Theater as seen in such major dramatists as O'Neill, Odets, Wilder, Miller, Williams, and Albee. (Group C)

306 Modern American Novel (3) The novel in America from Dreiser to the present. (Group C)

307 Modern American Poetry (3) Major 20th-century American poets. (Group C)

308 American Women Writers (3) A portrait of the American woman: her social position, and her attitudes toward sexuality. A re-evaluation of women writers in view of these observations: Olsen, Cather, Chopin, Oates, and others. (Group C)

335 Shakespeare I (3) Selected comedies, histories, and tragedies. Literary historical background and Shakespeare's development as a dramatist. (Group A)

336 Shakespeare II (3) Similar to LIT 335 with a different choice of plays; either course may be taken first. (Group A)

337 Literature of the Enlightenment (3) A critical consideration of 18th-century writers, exclusive of the dramatists. (Group B)

338 Restoration and 18th Century Drama (3) The drama from the reopening of the theaters in 1660 to 1800. (Group B)

339 18th Century British Novel (3) The British novel from Defoe to Austen. (Group B)

340 The Romantic Movement (3) Wordsworth, Coleridge, Byron, Shelley, Keats, and their contemporaries in the light of social background and critical doctrine. (Group B)

341 19th Century British Novel (3) The British novel from Austen to Hardy. (Group B)

342 Victorian Literature (3) Victorian thought and culture in poetry and non-fiction prose. (Group B)

343 Modern British Drama (3) British drama from Wilde to the present, with emphasis on the rebirth of the British drama and its major writers. (Group B)

344 Modern British Novel (3) The novel in England from Conrad to the present. (Group B)

345 Modern British Poetry (3) Major 20th-century British poets. (Group B)

361 Modern Continental Drama (3) A consideration of the chief writers who influenced the

modern drama: Ibsen, Strindberg, Chekhov, Hauptmann, Pirandello, Sartre, Brecht, and Ionesco. (Group D)

362 Modern Continental Fiction (3) Important modern European writers in translation: Flaubert, Dostroevsky, Unamuno, Gide, Mann, Kafka, Camus, Sarte, and Moravia. Their aesthetic and philosophical contributions to modern fiction. (Group D)

364 Modern Irish Literature (3) Major literary writers of Ireland from 1840 to the present: George Moore, Synge, Yeats, Joyce, Shaw, O'Casey, Beckett, Behan, and Brian Moore. (Group B)

365 Short Fiction (3) Analysis and interpretation of short fiction. (Group E)

366 Criticism (3) A study of the theories of classical antiquity, England, and the United States, with emphasis on the relevance of these theories to English and American literature of the moment. (Group E)

390 Comparative Cinema (3) A comparative approach to the study of film, which each semester focuses on a selected theme (myth and film, subversive film,Brechtian film), director (Pasolini, Bergman), or cinema group (Eastern European film, Oriental film). (Group E)

400 Literature Seminar (3) Topics announced annually. Required of English majors in the junior or senior year. May be repeated for credit.

430 Old English Language and Literature (3) An introductory study of the language (450-1150 A.D.) through a reading of religious and secular poetry and prose. (Group A)

431 Middle English Language and Literature (3) An introductory study of the language (1150-1450 A.D.) through a reading of selected literary texts. (Group A)

432 English Drama to 1642 (3) English drama from the early liturgical tropes to 1642, exclusive of Shakespeare. (Group A)

434 Renaissance Poetry and Prose (3) Poetry and Prose of the 16th and early 17th centuries.

435 Chaucer (3) An interpretation of *Canterbury Tales* and *Troilus and Criseyde*. (Group A)

437 Spenser (3) A study of *The Faerie Queene* and shorter poems. (Group A)

440 Milton (3) A survey of the major poetry and prose works. (Group A)

The English department accepts certain humanities courses as major electives. Consult the *Handbook for English Majors* for a list of approved humanities courses.

Ethnic Studies

Irene G. Shur, *Director*

Philip D. Smith, *Associate Director*

Bonita Freeman-Witthoft, *Associate Director*

EXECUTIVE COMMITTEE: Andrew Dinniman, Ann F. Diseroad, Jorge Escorcia, Bonita Freeman-Witthoft, Stephen Gilmour, Jody M. Harris, Yoko Hashimoto-Sinclair, Yi-ming Hsu, Iris Mayo, Dimitri Monos, Kostas Myrsiades, Tahany Nagar, Alfred D. Roberts, Irene G. Shur, Philip D. Smith, James Trotman, Richard J. Webster, Robert J. Young.

The Institute for Ethnic Studies (IES) offers transcript recognition and a certificate to any student, regardless of major, who satisfactorily complete 18 semester hours of work in ethnic studies. To earn the certificate and transcript recognition, students must take Sociology 235 (Racial and Ethnic Understanding) and must take at least one ethnic-oriented course in each of the following areas. (The other courses can be taken in any of the areas.)

A. Art, English, humanities, language, literature, philosophy, spanish, or speech and theatre.
B. Economics, geography, history, political science, or a social science interdisciplinary course.
C. Anthropology, education, physical education, sociology, or social welfare.

As soon as possible, students should register their intent to earn this distinction with the director of the Institute for Ethnic Studies (New Main 304). At the end of each semester, students should report to the director the ethnic-related courses completed during the semester and the courses planned for the following semester. An updated list of courses approved for credit is available each semester, before the advisement and scheduling period from the Institute for Ethnic Studies. Students can use an approved ethnic-related course towards the completion of the Certificate of Ethnic Studies at the same time it is being used to fulfill their major, minor or elective requirements. Up to six hours of transfer credit from other colleges in ethnic-related courses can, with the approval of the director of the Institute for Ethnic Studies, be used to partially fulfill the requirements for the Certificate of Ethnic Studies.

Eighteen credit hours of ethnic studies core courses lead to a Certificate of Ethnic Studies. Also available are four options to students interested in specific areas of ethnic studies. These options are:

- Afro-American Studies leading to a Certificate of Afro-American Studies.
- Hispanic-American Studies leading to a Certificate of Hispanic-American Studies.
- Jewish-American Studies leading to a Certificate of Jewish-American Studies.
- Holocaust Studies leading to a Certificate of Holocaust Studies.

For each option presently offered there are in addition to the relevant ethnic studies core courses, certain cognate courses. These cognate courses do not necessarily deal directly with ethnic group life but give an added dimension of social and historical background.

In both the ethnic studies, and the optional programs, students must complete 18 credit hours and, as described above, at least one course must be in category A, B, and C. Please note that students working on the Certificate of Afro-American Studies must take History 373 (Afro-American History) and either Literature 202 or 203 (Afro-American Literature); students working on a Certificate of Hispanic-American Studies must take Anthropology 120 (Cultures of Ethnic Peoples in America); students working on a Certificate of Jewish-American Studies must take History 145 (The Jew in History) and Literature 304 (American-Jewish Novel), and students working on a Certificate of Holocaust Studies must take History 145 (The Jew in History) and History 146 (Holocaust).

In order to maintain an active registration in the ethnic studies and the related options, students must attend a group advisement session each semester and two ethnically related events — speakers, musical programs, art shows, theatre productions, films, etc. — during the semester.

FOR ADVISEMENT IN ETHNIC STUDIES, CONTACT DR. IRENE G. SHUR, NEW MAIN 304

COURSES LEADING TO A CERTIFICATE OF ETHNIC STUDIES

ETHNIC STUDIES CORE COURSES

Group A

ART 404 Ethnic-American Art
ENG 339 History and Dialects of American English
ENG 340 Sociolinguistic Aspects of English
LIT 202 Afro-American Literature I
LIT 203 Afro-American Literature II
LIT 301 Folklore in America
LIT 303 Introduction to Multi-Ethnic American Literature
LIT 304 American-Jewish Novel
LIT 308 American Women Writers (Dr. Alice Markow's sections)
MUS 121 Fine Arts Music (Dr. Irving Cohen's sections)
MUS 125 Perspectives in Jazz
MUS 126 Folk and Traditional Music of the

Western World
MUS 427 African and Afro-American Music
SPC 409 Intercultural Communication

Group B
ECO 349 Economics of Poverty
ECO 350 Urban Economics
HIS 145 The Jew in History
HIS 161 Violence in America
HIS 163 American Minorities
HIS 364 U.S. Urban History
HIS 370 American Indians
HIS 371 Africans in the New World
HIS 372 Topics in Afro-American History
HIS 373 Afro-American History
PSC 252 Civil Liberties and Civil Rights
SSC 201 The American Indian and the Frontier
SSC 480 Ethnic Culture Workshop

Group C
ANT 120 Cultures of Ethnic Groups in America
ANT 140 Folklore in Society
ANT 320 The American Indian
ANT 321 The American Indian Today
EDU 360 The Disadvantaged Child
EDU 361 Teaching in Urban Schools
PED 141 Social, Folk, Square Dance
PED 342 Advanced Folk Dance
SOC 235 Racial and Ethnic Understanding
SOC 335 Racial and Cultural Minorities
SOC 342 Urban Sociology

COURSES LEADING TO A CERTIFICATE IN AFRO-AMERICAN STUDIES

In fulfilling the Afro-American Studies Option, the student may select from the following ethnic core courses:

Group A
ART 404 Ethnic-American Art
ENG 339 History and Dialects of American English
ENG 340 Sociolinguistic Aspects of English
LIT 202 Afro-American Literature I
LIT 203 Afro-American Literature II
LIT 301 Folklore in America
LIT 303 Introduction to Multi-Ethnic American Literature
MUS 125 Perspective in Jazz
MUS 427 African and Afro-American Music
SPC 409 Intercultural Communication

Group B
ECO 349 Economics of Poverty
ECO 350 Urban Economics
HIS 161 Violence in America
HIS 163 American Minorities
HIS 364 U.S. Urban History
HIS 371 Africans in the New World
HIS 372 Topics in Afro-American History
HIS 373 Afro-American History
PSC 252 Civil Liberties and Civil Rights
SSC 480 Ethnic Cultures Workshop

Group C
ANT 120 Cultures of Ethnic Groups in America
EDU 360 The Disadvantaged Child
EDU 361 Teaching in Urban Schools
SOC 235 Racial and Ethnic Understanding
SOC 335 Racial and Cultural Minorities
SOC 342 Urban Sociology

In addition, the following cognate courses may be taken only as part of the Afro-American Studies Option:

Group A
LAN 191-2 African Languages (up to 6 credits)

Group B
HIS 140 Emerging Nations (Africa)
HIS 311 History of Africa to 1800
HIS 312 History of Subsaharan Africa Since 1800
PSC 348 African Culture and Politics

Group C
ANT 326 Cultures and Peoples of Subsaharan Africa

COURSES LEADING TO A CERTIFICATE IN HISPANIC-AMERICAN STUDIES

In fulfilling the Hispanic-American Studies Option, the student may select from the following ethnic core courses:

Group A
ART 404 Ethnic-American Art
ENG 339 History and Dialects of American English
ENG 340 Sociolinguistic Aspects of English
LIT 303 Introduction to Multi-Ethnic American Literature
SPC 409 Intercultural Communication

Group B
ECO 349 Economics of Poverty
ECO 350 Urban Economics
EDU 360 The Disadvantaged Child
EDU 361 Teaching in Urban Schools
HIS 161 Violence in America
HIS 163 American Minorities
HIS 364 U.S. Urban History
PSC 201 Civil Liberties and Civil Rights
SSC 480 Ethnic Cultures Workshop (Permission of the instructor required)

Group C
ANT 120 Cultures of Ethnic Groups in America
SOC 235 Racial and Ethnic Understanding
SOC 335 Racial and Cultural Minorities
SOC 342 Urban Sociology

In addition the following cognate courses may be taken as part of the Hispanic-American Studies Option:

Group A
ART 411 Latin-American Art

LAN 305 Introduction to Bilingual-Bicultural Education
SPA 309 Spanish-American Literature
SPA 321 Civilization of Spanish America
SPA 411 Seminar in Spanish (when applicable)

Group B
GEO 302 Latin America
HIS 315 History of Latin America to 1825
HIS 316 History of Latin America since 1825
PSC 340 Latin-American Culture and Politics

COURSES LEADING TO A CERTIFICATE IN JEWISH-AMERICAN STUDIES

In fulfilling the Jewish-American Studies Option, the student may select from the following ethnic core courses:

Group A
ART 404 Ethnic-American Art
LIT 303 Introduction to Multi-Ethnic American Literature
LIT 304 American-Jewish Novel
SPC 409 Intercultural Communication

Group B
HIS 145 The Jew in History
HIS 161 Violence in America
HIS 163 American Minorities
HIS 164 U.S. Urban History
PSC 252 Civil Liberties and Civil Rights
SSC 480 Ethnic Cultures Workshop

Group C
ANT 120 Cultures of Ethnic Groups in America
SOC 235 Racial and Ethnic Understanding
SOC 335 Racial and Cultural Minorities
SOC 342 Urban Sociology

In addition the following cognate courses may be taken as part of the Jewish-American Studies Option:

Group A
LAN 191-194 Hebrew (up to 6 credits)
PHI 102 Introduction to Religious Studies
PHI 463 History of Hebrew Thought

Group B
HIS 140 Emerging Nations (Near East)
HIS 309 History of the Middle East
HIS 310 The Arab and the Jew

COURSES LEADING TO A CERTIFICATE IN HOLOCAUST STUDIES

Group A
LIT 304 American-Jewish Novel
PHIL 180 Ethics
SPC 301 Psychology of Speech Communication

Group B
HIS 145 The Jew in History
HIS 146 The Holocaust
HIS 323 Modern Germany
PSC 252 Civil Liberties and Civil Rights
SSC 385 Holocaust Workshop
PSC 322 Public Opinion, Propaganda and Behavior

Group C
SOC 235 Racial and Ethnic Understandings
PSY 354 Social Psychology

Requirements for the Certificate: History 145, History 146 and Sociology 235.

COURSE DESCRIPTIONS
ETHNIC STUDIES
Symbol: SSC

SSC 385 Holocaust Workshop (3)

SSC 480 Ethnic Cultures Workshop (3) This workshop considers the history, traditions, customs and contributions to American life of various ethnic groups. The lectures and special programs are designed to increase the students' knowledge of the multicultural nature of American society. Projects, specifically tailored to the students individual needs, are directed by a faculty member of the Ethnic Studies Institute of West Chester State College.

Foreign Languages

Ronald L. Gougher, *Chairperson*
Mary-Ann Reiss, *Assistant Chairperson*
PROFESSORS: Gutwirth, Lombardi, Roberts, Smith
ASSOCIATE PROFESSORS: Escorcia, Glumac, Gougher, Kulaski, Lipscomb, Schneider
ASSISTANT PROFESSORS: Braidotti, Eisenstadt, Gilmour, Greene, Peters, Reiss
INSTRUCTORS: Brown, Rosso

BACHELOR OF ARTS—FOREIGN LANGUAGES

French
German
Latin
Russian
Spanish

The program in foreign languages is intended to provide an advanced educational program for the student interested in the most human aspect of the humanities, language. The program provides a flexible basis for a wide variety of vocations involving bilingual skills and cross-cultural understanding. These include government, commerce, and industry as well as publishing and social services. It also serves as a preparation for graduate studies leading to advanced degrees. The major should be planned with the help of the faculty advisor.

REQUIREMENTS FOR BACHELOR OF ARTS IN FOREIGN LANGUAGES:

1. General Requirements, see pages 58-60 — 51 s.h.
2. Foreign Language Concentration — 33 s.h.
3. Two Cognate Courses:
   A. Linguistics 230 — 3 s.h.
   B. History of Language Area — 3 s.h.
4. Demonstration of proficiency in a second language through the intermediate II level.

Depending on their second language proficiency, students have from 27 to 38 elective hours. They may choose to apply some of these to additional advanced courses in their major area or to continue second or third language study.

For all foreign language majors some study abroad is desirable, indeed almost indispensable.

FRENCH-CONCENTRATION REQUIREMENTS (33 s.h.)
FRE 101-102*, 201-202, 203-204, 205-206, 207-208, 365.
Additional courses to complete the 33 s.h. under advisement.

GERMAN-CONCENTRATION REQUIREMENTS (33 s.h.)
GER 101-102*, 201-202, 203 and/or 204, 205 and/or 206, 207 and/or 208, 365.
Additional courses to complete the 33 s.h. under advisement.

LATIN-CONCENTRATION REQUIREMENTS (33 s.h.)
LAT 101-102*, 201, 202, 303, 406.
Additional courses to complete the 33 s.h. under advisement.

RUSSIAN-CONCENTRATION REQUIREMENTS (33 s.h.)
RUS 101-102*, 201-202, 203, 205-206, 207-208, 305-306, 365, 401.
Additional courses to complete the 33 s.h. under advisement.

SPANISH-CONCENTRATION REQUIREMENTS (33 s.h.)
SPA 101-102*, 201-202, 203-204, 207-208, 320-321, 365; Two of the following: SPA 305, 306, 307, 308, 309.
Additional courses to complete the 33 s.h. under advisement.

*Foreign language majors receive no credit towards graduation for 101 and/or 102 in their majors. If 101 and/or 102 in another language are taken as free electives, they will be credited towards graduation.

BACHELOR OF SCIENCE IN EDUCATION—FOREIGN LANGUAGES

French
German
Latin
Russian
Spanish

The Instructional I Certificate in a foreign language qualifies the holder to teach his major language in the public schools (kindergarten through 12th grade) of Pennsylvania.

REQUIREMENTS FOR BACHELOR OF SCIENCE IN EDUCATION—FOREIGN LANGUAGES

1. General Requirements, see pages 58-60 — 51 s.h.
2. Foreign Language Concentration — 33 s.h.
3. Two cognate courses:
   A. Linguistics 230 — 3 s.h.
   B. History of Language Area — 3 s.h.
4. Student must complete professional education sequence of — 30 s.h.
5. Electives to complete 128 hours.

The student is advised to use his/her electives in areas which will contribute to his/her profession.

For all foreign language majors some study abroad is desirable, indeed almost indispensable. Students can receive assistance in selecting programs in areas where their language is spoken.

FRENCH-SPECIALIZED PREPARATION (33 s.h.)
FRE 101-102*, 201-202, 203-204, 205-206, 207-208, 365.
Additional French courses to complete the 33 s.h.
Students must also complete LAN 301, credited to Professional Education.

GERMAN-SPECIALIZED PREPARATION (33 s.h.)
GER 101-102*, 201-202, 203-204, 205-206, 207-208, 365.
Additional German courses to complete the 33 s.h.
Students must also complete LAN 301, credited to Professional Education.

LATIN-SPECIALIZED PREPARATION (33 s.h.)
LAT 101-102*, 201, 202, 303, 406.
SPA 305, 306, 308, 309.
Additional Spanish courses to complete the 33 s.h.
Students must also complete LAN 301, credited to Professional Education.
Additional Latin courses to complete the 33 s.h.
Students must also complete *LAN 301, credited to Professional Education.

RUSSIAN-SPECIALIZED PREPARATION (33 s.h.)
RUS 101-102*, 201-202, 203, 205-206, 207-208, 365, 401.
Additional Russian courses to complete the 33 s.h.

SPANISH-SPECIALIZED PREPARATION (33 s.h.)
SPA 101-102*, 201-202, 203, 204, 207-208, 320-321, 365; Two of the following:

*Foreign language majors receive no credit toward graduation or certification for 101 and/or 102 in their majors. If 101 and/or 102 in another language are taken as free electives, they will be credited towards graduation.

GREEK, ITALIAN, PORTUGUESE
The following courses in Greek, Italian and Portuguese may be offered, but no major field is available:

GREEK—CLASSICAL AND NEW TESTAMENT
Elementary Greek I-II (GRE 101-102) and Intermediate Greek I-II (GRE 201-202).

ITALIAN
Elementary Italian I-II (ITA 101-102), Intermediate Italian I-II (ITA 201-202), Introduction to Dante (ITA 301), and High Points in Italian Literature (ITA 302).

PORTUGUESE
Elementary Portuguese I-II (POR 101-102) and Intermediate Portuguese I-II (POR 201-202).

ADDITIONAL LANGUAGES
Selected critical or uncommonly taught languages such as Chinese, Japanese, Polish, Serbo-Croatian, Modern Greek, Modern Hebrew, (LAN 191-192-193-194).

THE JUNIOR YEAR ABROAD PROGRAM

The following courses in French are offered at the University of Montpelier, France, under the Junior Year Abroad Program sponsored by West Chester State College. The program is designed for persons interested in France in order to give them a firsthand acquaintance with French life and enable them to achieve an active command of the language.

The program is open to any student enrolled in a college or university who has completed the equivalent of two years of college French and is able to take lectures in French. During the time the student is enrolled in the program, he is a student of West Chester State College and will receive a minimum of 30 credits for a full two semesters of college work after successful completion of the year-abroad program of studies. Each course runs for two semesters and is conducted entirely in French by French professors. Other types of programs can be arranged for non-language majors.

MONTPELIER COURSE OFFERINGS:

Advanced Grammar and Composition (FRE 361-62)
Advanced French Conversation (FRE 363-64)
Phonetics and Translation (FRE 365-66)
Contemporary French Civilization (FRE 367-68)
Literary Studies (FRE 369-70)

FOREIGN LANGUAGE MINOR

1. Literature and Culture — 18 s.h.
   A. Language at levels 201 and 202 required.
   B. Either 203 or 207.
   C. Three courses of literature and/or culture and civilization pertaining to the language of the minor.
2. Language — 18 s.h.
   A. Language at the 201 and 202 levels.
   B. Three of the following: 203, 204, 207, 208 or 365.
   C. One course in literature and/or culture and civilization pertaining to the language of the minor.

FOREIGN LANGUAGE TESTING AND PLACEMENT

The Department of Foreign Languages provides a testing service for students entering the college. Based on the results of the tests given and an analysis of past experience, the Department of Foreign Languages will suggest the level of language a student should enter. After taking part in any given course for a short period of time, a student's placement could be changed if consultation between the student and an advisor results in a decision to change the placement. The department reserves the right to withhold credit towards a degree for a course taken at a lower level than was recommended by the department.

If a student wishes to take an exam to complete the language requirement or receive credit for a course, he or she must take a special exam other than those given for placement. Arrangements can be made with the Chairperson of the Department of Foreign Languages.

COURSE DESCRIPTIONS

FRENCH

Symbol: FRE

101-102 Elementary French I-II (3) (3) Fundamentals of French grammer, syntax, and pronunciation. Introduction to French culture through easy reading texts. The audio-lingual method is employed at all times. Work in the language laboratory required.

200 Intermediate Research (1) Special studies in French for studio art majors. Approval of department required.

201-202 Intermediate French I-II (3) (3) Intensive review of grammar and syntax. Readings in French literature as a basis for class discussion in French and practice in composition. Language laboratory drill for remedial work only. PREREQ:FRE 102 or equivalent.

Note: All advanced literature and civilization courses include lectures and discussion in the foreign language, and all student papers and examinations must be written in the foreign language.

203-204 Advanced French Grammar and Composition I-II (3) (3) The more complex grammatical and syntactical structures of the language, with particular attention to stylistics. Practice in writing compositions on a more advanced level, with emphasis on correct usage. PREREQ: FRE 202 or equivalent. Work in the language laboratory required.

205-206 French Civilization I-II (3) (3) France's political and educational systems, her economic and religious institutions, and her folkways. The arts in France today. PREREQ: FRE 201 or equivalent.

207-208 Advanced Oral French I-II (3) (3) Intensive drill in the oral use of the language to develop proficiency in listening comprehension and speaking. PREREQ: FRE 203 or equivalent.

210 French for Business (1) Study of the language and vocabulary of business, trade, and industry in French. Intended for those interested in careers in business and industry. PREREQ: French 201 or equivalent.

211 Scientific French (1) Language and vocabulary of science in French. Techniques of translating scientific texts from French to English. PREREQ: FRE 201 or equivalent.

212 French for Travelers (1) Study of the language of travel along with a comparison of French and American customs and way of life in general.

365 French Phonetics (3) Description and practice in the sounds of the French language and its major dialectical differences. Contrastive analysis with English. PREREQ: LIN 230.

401 French Literature of the 18th Century (3) The "philosophies" of the 18th century, emphasizing the works of Voltaire, Rousseau, Montesquieu, and Diderot. PREREQ: FRE 206.

402 French Lyric Poetry (3) Development of French lyric forms; French versification, study of selected poets, using "explication de textes."

403 French Literature of the 17th Century (3) 17th century prose; lyric and narrative poetry; the concept of classicism.

404 French Classical Drama (3) Corneille, Racine, and Moliere. PREREQ: FRE 205.

405 French Literature of the Middle Ages and Renaissance (3) Survey of selected readings in Modern French translation from Old French literature and from such major figures as Villon, Rabelais, the Pleiade poets, and Montaigne.

406 Modern French Theater (3) Study of 20th century theatrical forms, extending from the end of World War I to the present.

407 19th Century French Novel (3) Development of the French novel from the pre-Romantic period through the Naturalistic writers.

408 20th Century Novel (3) The French novel of the century, from Proust and Gide to the "roman nouveau."

410 Independent Studies in French Language and Literature (3) Special topics for advanced students only. Admission by permission of instructor.

411 Seminar in French (3) Independent study and research for upper division students. Topics announced annually by the French faculty. PREREQ: permission of instructor.

412 Seminar in French (3) Independent study and research for upper division students. Topics announced annually by the French faculty. PREREQ: permission of instructor.

FRENCH JUNIOR YEAR ABROAD PROGRAM
361-62 Advanced Grammar and Composition (6)
363-64 Advanced French Conversation (6)
365-66 Phonetics and Translation (6)
367-68 Contemporary French Civilization (6)
369-70 Literary Studies (6)

GERMAN
Symbol: GER

101-102 Elementary German I-II (3) (3) Fundamentals of German grammar, syntax, and pronunciation. Introduction to German culture through easy reading texts. The audio-lingual method is employed, and language laboratory drill is required.

200 Intermediate Research (1) Special studies in German for studio art majors. Approval of department required.

201-202 Intermediate German I-II (3) (3) Review of grammar and syntax. Readings in German literature as a basis for class discussion in German and practice in composition. Language laboratory drill required for remedial work only. PREREQ: GER 102 or equivalent.

Note: All advanced literature and civilization courses include lectures and discussion in the foreign language, and all student papers and examinations must be written in the foreign language.

203-204 Advanced German Grammar and Composition I-II (3) (3) The more complex grammatical and syntactical structures of the language with particular attention to stylistics. Practice in writing compositions on a more advanced level with emphasis on correct usage. PREREQ: GER 202 or equivalent.

205 **Survey of German Literature I** (3) German literature from its earliest beginnings to 1800. PREREQ: GER 202 or equivalent.

206 **Survey of German Literature II** (3) German literature from 1800 to the present. PREREQ: GER 202 or equivalent.

207-208 **Advanced Oral German I-II** (3) (3) Intensive drill in the oral use of the language to develop proficiency in listening comprehension and speaking. PREREQ: GER 203 or equivalent.

210 **German for Business** (1) Intensive practice in writing business correspondence, job applications, and discussions of business practices in Germany.

211 **German for Science** (1) Study of basic vocabulary for reading documents related to various scientific fields. Readings in individual fields of endeavor.

212 **German for Travel** (1) Study of major cities and cultural sites in Germany. Concentration on contemporary information and travel.

305 **German Civilization** (3) The evolution of Germany's social, political, and economic institutions. An analysis of the major contributions of German civilization to Western culture. PREREQ: GER 202 or equivalent.

365 **German Phonetics** (3) Description and practice in the sounds of the German language and its major dialectical differences. Contrastive analysis with English. PREREQ: LIN 230.

401 **The Age of Goethe** (3) German literary doctrines and masterpieces of the periods of Enlightenment, Storm and Stress, and Classicism. PREREQ: GER 202 or equivalent.

402 **Contemporary German Literature** (3) Works of the principal German writers of the 20th century. PREREQ: GER 202 or equivalent.

403 **The German Short Story** (3) The German short story from Romanticism to the present. PREREQ: GER 202 or equivalent.

404 **Goethe** (3) Important works of Goethe; his background and literary development. PREREQ: GER 205.

406 **German Literature in the 19th Century** (3) German realism of the 19th Century. PREREQ: GER 206 or equivalent.

407 **German Lyric Poetry** (3) Modern German poetry of pre and post World War II. PREREQ: GER 206 or equivalent.

408 **Modern German Drama** (3) Major dramatists of the 20th Century. PREREQ: GER 206 or equivalent.

409 **German Literature of the Romantic Period** (3) PREREQ: GER 206 or equivalent.

410 **Independent Studies in German Language and Literature** (3) Special topics for advanced students only; admission by permission of instructor.

411 **Seminar in German** (3) Independent study and research for upper division students. Topics announced annually by the German faculty. PREREQ: permission of instructor.

412 **Seminar in German** (3) Independent study and research for upper division students. Topic announced annually by the German faculty. PREREQ: permission of instructor.

GREEK
Symbol: GRE

101 **Elementary Greek I** (3) For students who have had no previous Greek. Forms, syntax, and idioms of Koine Greek.

102 **Elementary Greek II** (3) A continuation of Greek 101. Readings in New Testament and Septuagint Greek. Introduction to Attic Greek.

201 **Intermediate Greek I** (3) Review of the Attic Greek and readings in Socratic dialogues of Plato. PREREQ: GRE 102.

202 **Intermediate Greek II** (3) Introduction to Greek tragedy. Sophocles' **Antigone** and Euripides' **Medea** are read and analyzed. PREREQ: GRE 201.

301 **Greek Reading I-Homer** (3) Introduction to Homeric prosody and grammar. Analysis of selected portions of the *Iliad*.

302 **Greek Reading II Greek Historians** (3) Introduction to Greek historiography. Analysis of selected readings in the historians.

ITALIAN
Symbol: ITA

101-102 **Elementary Italian I-II** (3) (3) Intensive drill, both in class and the language laboratory, with pronunciation, intonation, and basic linguistic patterns. Introduction to Italian culture through basic dialogues and easy reading texts.

201-202 **Intermediate Italian I-II** (3) (3) Review of Italian grammar and syntax. Introduction to Italian literature through short readings of intermediate difficulty. Composition and conversation in Italian based on reading assignments. Language laboratory for remedial drill. PREREQ: ITA 102 or equivalent.

301 **Introduction to Dante** (3) This course is taught in English and designed for those desirous of further study in Italian literature, as well as students in related fields: other Romance languages, English literature and other areas.

302 **High Points in Italian Literature** (3) The most important Italian writers from the Renais-

sance to the present day, with emphasis on the modern period.

303 Italian Culture and Civilization (3) An introduction to the philosophical and artistic contributions of the Italian world to Western Civilization.

304 Advanced Oral Italian (3) Theoretical and practical approach to phonology, phonetics, and basic self-expression in the Italian language.

LATIN
Symbol: LAT

101-102 Elementary Latin I-II (3) (3) Forms, syntax, and idioms of classical Latin. Selected readings.

201 Cicero (3) Selections from the orations, letters, and essays. PREREQ: LAT 101, 102, or two years of secondary school Latin.

202 Vergil (3) Reading and analysis of celebrated portions of the **Aeneid**. The nature of Latin epic poetry. PREREQ: LAT 201 or three years of secondary school Latin.

Note: LAT 202 or four years of secondary school Latin is prerequisite to all following courses in Latin.

301 Teaching of Latin (3) Introduction to the problems, methods, and materials in the teaching of Latin.

302 The Latin Lyric Poets (3) Latin lyric poetry through readings in Catullus, the Odes, and Epodes of Horace. Practice in the composition of lyric poetry.

303 Advanced Latin Prose Composition (3) Required of Latin majors; open to other students accepted by the instructor. The complex syntactical structures of Latin of classical style. Translations of English into classical Latin.

304 The Latin Elegiac Poets (3) Latin elegiac poetry through readings, in Ovid, Tibullus, Lygdamus, Sulpicia, and Propertius. Practice in the composition of the elegiac poetry.

305 Reading Course in Latin (3) Open to Latin majors only. Area and content to be determined by student's needs.

306 Roman Historians (3) Introduction to Roman historiography. Readings in Livy, Sallust, and Tacitus.

401 Roman Drama (3) Origins and development of Roman drama. Selected plays of Plautus, Terence, and Seneca.

402 Roman Philosophy (3) Introduction to Greek and Roman philosophy. Readings in Cicero, "Tusculan Disputations," and Lucretius, "De Rerum Natura."

403 Roman Satire (3) Origins and development of Roman satire. Readings in Horace, Persius, and Juvenal.

404 The Latin Novel (3) Readings in Petronius, "Satyricon," and Apuleius, "The Golden Ass." Lectures and discussions of the emergence of the novel as a literary form.

405 Medieval Latin (3) Prose and poetry from the 4th to the 17th centuries.

406 Latin Tutorial Course (3) Required of majors in Latin or Classics; open to other students accepted by the instructor. Introduction to the history of the alphabet; principles of historical and comparative linguistics, especially as applied to Greek and Latin; and history of the Latin language as seen in ancient authors and inscriptions.

410 Independent Studies in Latin Language and Literature (3) Special topics for advanced students only; admission by permission of instructor.

411 Seminar in Latin (3) Independent study and research for upper division students. Topics announced annually by the Latin faculty. PREREQ: permission of instructor.

412 Seminar in Latin (3) Independent study and research for upper division students. Topics announced annually by the Latin faculty. PREREQ: permission of instructor.

PORTUGUESE
Symbol: POR

101-102 Elementary Portuguese I-II (3) (3) Fundamentals of Portuguese grammar, syntax, and pronunciation. Introduction to Brazilian heritage and culture through graded reading selections.

201-202 Intermediate Portuguese I-II (3) (3) Review and continuation of basic Portuguese with emphasis on vocabulary expansion and cultural insights through increased readings materials. Introduction to selected Portuguese and Brazilian authors. PREREQ: POR 102.

RUSSIAN
Symbol: RUS

101-102 Elementary Russian I-II (3) (3) Fundamentals of Russian grammar, syntax, and pronunciation. Extensive drill in the language laboratory required.

200 Intermediate Research (1) Special studies in Russian for studio art majors. Approval of department required.

201-202 Intermediate Russian I-II (3) (3) Grammar review with readings in Russian literature as a basis for class discussion in Russian and practice in composition. Language laboratory drill recommended for those needing further work in

pronunciation and intonation. PREREQ: RUS 102.

Note: All advanced literature and civilization courses include lectures and discussion in the foreign language, and all student papers and examinations must be written in the foreign language.

203 Advanced Russian Grammar and Composition (3) The more complex grammatical and syntactical structures of the language, with particular attention to stylistics. Practice in writing compositions on a more advanced level, with emphasis on current usage. PREREQ: RUS 202 or equivalent.

205-206 Advanced Readings in Russian Literature I-II (3) (3) Works of Pushkin, Lermontov, Turgenev, and Gorki are read and analyzed. PREREQ: RUS 202 or equivalent.

207-208 Advanced Oral Russian I-II (3) (3) Intensive drill in the oral use of the language to develop proficiency in listening comprehension and speaking. PREREQ: RUS 203 or equivalent.

303-304 Scientific Russian I-II (3) (3) Review of syntax: reading and translation in general science and basic technical fields. PREREQ: RUS 202 or equivalent.

305-306 Russian Civilization I-II (3) (3) A study of the cultural, philosophical, religious, and artistic contributions of Russia. PREREQ: RUS 202 or equivalent.

310 Russian Literature in Translation (3) Survey of Russian Literature from its origin to the present. Centuries of search for truth, the ideological controversies, the social longings of the Russian people expressed in literature. All works read in English.

365 Russian Phonetics (3) Description and practice in the sounds of the Russian language and its major dialectical differences. Contrastive analysis with English. PREREQ: LIN 230.

401 The Russian Novel (3) The Russian novel and literary trends of the 19th and 20th centuries. PREREQ: RUS 205 or equivalent.

402 The Russian Drama (3) Works of the major dramatists of the 19th and 20th centuries. PREREQ: RUS 205 or equivalent.

403 Russian Poetry of the 10th Century (3) A study of the principal Russian poets of the 20th century. PREREQ: RUS 205 or equivalent.

410 Independent Studies in Russian Language and Literature (3) Special topics for advanced students only; admission by permission of instructor.

411 Seminar in Russian (3) Independent study and research for upper division students. Topics announced annually by the Russian faculty. PREREQ: permission of instructor.

412 Seminar in Russian (3) Independent study and research for upper division students. Topics announced annually by the Russian faculty. PREREQ: permission of instructor.

SPANISH
Symbol: SPA

101-102 Elementary Spanish I-II (3) (3) Fundamentals of Spanish grammar, syntax, and pronunciation from the oral-aural point of view. Introduction to Spanish culture through easy reading texts.

200 Intermediate Research (1) Special studies in Spanish for studio art majors. Approval of department required.

201-202 Intermediate Spanish I-II (3) (3) Review of Spanish grammar and syntax. Readings in Spanish literature as a basis for class discussion in Spanish and practice in composition. Language laboratory drill recommended for remedial work where needed. PREREQ: SPA 102 or equivalent.

Note: All advanced literature and civilization courses include lectures and discussion in the foreign language, and all student papers and examinations must be written in the foreign language.

203 Advanced Spanish Grammar (3) Review and mastery of Spanish grammar with emphasis on common grammatical problems, syntactic structures, and idiomatic expression. PREREQ: SPA 202 or equivalent.

204 Advanced Spanish Composition (3) Written expression in Spanish on a more advanced level. Special attention to stylistics. An application of SPA 203. PREREQ: SPA 203.

207-208 Advanced Oral Spanish I-II (3) (3) Intensive drill in oral usage of the Spanish language to develop proficiency in listening comprehension and speaking. PREREQ: SPA 203 or equivalent.

305 Spanish Medieval Literature (3) Spanish literature from its earliest beginning to the end of the 14th century. PREREQ: SPA 203 or equivalent.

306 Spanish Literature of the Renaissance (3) Spanish literature from the Celestina through the 17th century. Emphasis on the Golden Age. PREREQ: SPA 203 or equivalent.

307 Spanish Literature of the 18th and 19th Centuries (3) Spanish literature from the beginning of the 18th century to the end of the 19th excluding the Generation of 1898. PREREQ: SPA 203 or equivalent.

308 Spanish Literature of the 20th Century (3) The literature and thought of this century in Spanish letters. PREREQ: SPA 203 or equivalent.

309 Spanish American Literature (3) Spanish American literature through major authors and works. Perspective on the different literatures. PREREQ: SPA 203 or equivalent.

320 Civilization of Spain (3) Major contributions of Spain. Cultural, geographic, literary, philosophical, and artistic manifestations of the Hispanic world. PREREQ: SPA 202 or equivalent.

321 Civilization of Spanish America (3) Cultural, geographic, literary, philosophical, and artistic manifestations of the Hispanic American World. PREREQ: SPA 202 or equivalent.

365 Spanish Phonetics (3) Description and practice in the sounds of the Spanish language and its major dialectical differences. Contrastive analysis with English. PREREQ: LIN 230.

400 An Introduction to Cervantes and Don Quixote (3) Reading the full text of Don Quixote important chapters and topics will be analyzed. Special emphasis given to problems of translation.

401 Spanish "Comedia" of the Golden Age (3) Spanish National Theater. Themes and traditions in the "Comedia." PREREQ: SPA 306 or equivalent.

402 Cervantes (3) Study of "Don Quixote." Cervantes' contributions to literature. An insight into his works. PREREQ: SPA 306 or equivalent.

403 Spanish Lyric Poetry (3) Analysis of Spanish poetic expression and poetic form. Reading of the main lyric poets of Spanish literature. PREREQ: SPA 305 or 306 or 307 or 308 or equivalent.

404 The Picaresque Novel (3) The picaresque tradition in Spain. The literary "picaro." The contributions of Spain to other literatures. PREREQ: SPA 306 or equivalent.

405 Modern Spanish Theater (3) Contemporary Spanish theater from the late 19th century to the present. PREREQ: SPA 307 or 308 or equivalent.

406 The Generation of 1898 (3) An evaluation of the Generation of 1898; its role in the literature, history, and philosophy of Spain. PREREQ: SPA 307 or 308 or equivalent.

410 Independent Studies in Spanish Language and Literature (3) Special topics for advanced students only; admission by permission of instructor.

414 The Black in Spanish American Literature (3) For undergraduates who are interested in the characterization of blacks in Spanish American Literature and the political and social context of their literary portrayal.

456 Seminar in Spanish (3) Independent study and research for upper division students. Topics announced annually by the Spanish faculty. PREREQ: permission of instructor.

457 Seminar in Spanish (3) Independent study and research for upper division students. Topics announced annually by the Spanish faculty. PREREQ: permission of instructor.

ADDITIONAL LANGUAGES

LAN 191-192 Critical Language I-II (3) (3) Self-instructional program in one of the seldom taught languages: Chinese, Japanese, Polish, Serbo-Croatian, Modern Greek, Modern Hebrew, Portuguese, etc. The student works with an integrated text, tape program, and a tutor. By permission of Department of Foreign Languages.

LAN 193-194 Critical Language III-IV (3) (3) Continuation of LAN 191-192.

COURSES COMMON TO ALL LANGUAGES

LAN 250 The Art of Translation (3) Techniques of translating literary, journalistic, and technical and scientific texts. PREREQ: 202 or equivalent in a modern language.

LAN 301 Teaching of Modern Languages: K-12 (4) Problems, methods, and materials of teaching second languages at all levels. Observation and participation in second-language classrooms. PREREQ: completion of language courses through the advanced level and LIN 230.

LAN 303 Second Languages in the Elementary School (3) Techniques and materials used in teaching second languages in the elementary school. Practice in the application of these techniques and observation of foreign language classes. PREREQ: completion of intermediate level in the chosen foreign language.

LAN 305 Introduction to Bilingual/Bicultural Education (3) Introduction to the history, philosophy, current status, and future directions of Bilingual/Bicultural education. Survey of materials, techniques, instructional processes, and instructional patterns. Overview of testing, placement, and pupil evaluation. PREREQ: intermediate level proficiency in a second language and LIN 250 or equivalent.

LAN 411 Independent Study (3) Specialized studies in language and the teaching of foreign languages.

LIN 230 (also ENG 230) Introduction to Linguistics (3) See ENG 230.

LIN 250 Psycholinguistics (3) Introduction to the study of relationships between language, generative models, communication theory, and learning theory. Major emphasis on natural language development and bilingualism.

LIN 330 (also PHI 330) Introduction to Meaning (3) See PHI 330.

LIN 360 (also PHI 360) Philosophy of Language (3) See PHI 360.

LIN 380 Language and Culture (3) Language as an aspect of culture; linguistic-perceptual-cognitive categories; social and psychological aspects of language. PREREQ: Lin 230 or permission of instructor.

LIN 406 Meaning in Language (3) (See PHI. 406)

LIN 411-412 Seminar in Linguistics (3) Specialized studies in linguistics. Topics announced annually. PREREQ: Lin 230 or at least junior standing.

LIN 415 (also SPC 415) General Semantics (3) See SPC 415.

Geography (See Government and Planning)

Government and Planning

David Eldredge, *Chairperson*

F. Robert Bielski, *Assistant Chairperson*

Geographers

ASSOCIATE PROFESSORS: Bielski, Grassel, Rampon, Tachovsky

ASSISTANT PROFESSORS: Rengert, Thomas

Political Scientists

PROFESSORS: Brady, Mayo, Milne, Shea

ASSOCIATE PROFESSORS: Burns, Burton, Eldredge, Iacono

ASSISTANT PROFESSORS: Marbach, Sandhu, Smith

The Department of Government and Planning came into existence in 1979 by merging the departments of "Geography and Planning" and "Government and Politics." This action recognized their inter-related programs in planning, public services, and public administration.

The choices of majors are outlined in the following pages. Major requirements may be completed in the day or evening program. Minors (requiring 18 hrs.) and internships are available in the same areas as majors. These minors may be taken as concentrations by students in the AA Program. Courses are usually offered at least once a year unless otherwise noted. Majors must consult printed department materials, posted announcements, and their advisor regularly for current requirements and opportunities.

PROGRAM DESCRIPTIONS and COURSES
Bachelor of Arts—Geography
Bachelor of Arts—Political Science
Bachelor of Arts—Political Science/Public Administration
Bachelor of Science in Education—Comprehensive Social Studies

GEOGRAPHY

The basic objectives of study in geography and planning at West Chester are threefold: (1) to serve the general education needs of all students, (2) to provide specialized preparation needed for working in geography and planning related fields, and (3) to meet the particular needs of students in the arts and sciences. The discipline attempts to assist students in comprehending the broad scope of man's physical/cul-

tural environment and relationships to human situations and problems. As a discipline, geography provides a way of developing skills and of organizing knowledge from various disciplines, and enables students to examine the integrated whole of a people with reference to habitat and interspatial relationships.

BACHELOR OF ARTS—

1. General Requirements, see pages 58-60	51 s.h.
2. Foreign Language/Culture Requirement	0-15 s.h.
3. Additional Social Science Courses (in each of 3 disciplines not selected under General Requirements)	9 s.h.
4. Geography Core Requirements Required: GEO 102, 103, 212, 225, 400 (16 s.h.) Geography electives (under advisement)(17 s.h.)	34 s.h.
5. Cognate Courses Courses (under advisement) which are specifically related to identified career aspirations, and chosen outside General Requirements, or Geography Core.	12 s.h.
6. Free Electives	11 s.h.

GEOGRAPHY: PLANNING MINOR

The minor program in planning has been developed to afford students the opportunity to enhance progress in a major field through the acquisition of valuable skills; thereby preparing themselves for more than one career track. Minimum of 18 s.h. required.
Required Course: Geo 214 3 s.h.
Elective Courses (Under Geography/Planning advisement from the following courses): Geo 210; Geo 212 *or* Geo 320; Geo 216; Geo 225 *or* Geo 401; Geo 322; Geo 324 *or* Geo 326 or 330; and Geo 328.

COURSE DESCRIPTIONS

Symbol: GEO

★ 101 **World Geography** (3) The scope of geography and its special place in the cultural spectrum. Human society is examined in a frame of spatial, environmental, and resource factors. Emphasis is placed on the development of skills in the use of the "tools" of geography.

102 **Physical Geography** (3) The study of basic principles of physical geography and of relationships between components of the total earth environment.

103 **Human Geography** (3) An inquiry into the theoretical and applied approaches to the study of human spatial behavior and the distribution of social problems.

200 **Patterns of World Cultures** (3) An examination of selected, non-western areas, representing different stages of development, in the contemporaneous world. Emphasis is placed on cultural adaptation, innovation, and achievement of human occupants of these areas.

205 **Geographic Influences in American History** (3) Geographic characteristics which bore prominently on the discovery and colonization of America, and on the progressive development of the United States up to the 20th century.

210 **Population Problems** (3) Regional variations in the distribution of human populations. Numbers, past and present, in relation to demographic characteristics and migrations of populations.

212 **Urban Growth Dynamics** Analysis of patterns, processes, and consequences of urban growth and development. Theory of systems, size, spacing, and functions of cities.

214 **Introduction to Planning** (3) The method of analyzing problems of urban and regional planning. Emphasis is placed on systems of housing, recreation, transportation, industry, and commerce.

216 **Planning for Public Services** (3) A study of the quality of individual life. Analysis of geographic variation in social well being, problems of social systems monitoring, and social indicators used in planning.

220 **Location of Economic Activity** (3) Introduction to basic theoretical models of agricultural, industrial and settlement geography. Emphasis is placed on fundamental methods of geographic analysis.

225 **Map and Aerial Photo Interpretation** (4) A

★ Approved distributive requirement course

laboratory course designed to develop skills in and promote an understanding of maps and aerial photos. Offered in fall.

230 Conservation of Natural Resources (3) An inquiry into the type, size, and distribution of natural resources, and into the problems of resource management. Emphasis is placed on the United States.

232 Environmental Crises (3) The nature and dimensions of environmental problems with emphasis on endangered life-support systems. Aspects of natural and social environment systems, and their mutual interrelationships.

234 Environmental Perception (3) An interdisciplinary inquiry into the mechanics and meaning of human encounters with varied types and elements of environment.

236 Climatology (3) Climatic variation on the earth and their classification into regional types. Relationships of plants, soils, and cultures to types of climate.

238 Geomorphology (3) Constructional and degradational forces which have shaped present landforms, and are constantly reshaping and modifying landforms. Interpretation of geologic and topographic maps; field studies.

250 Settlement and Shelter (3) A course designed to analyze human attempts to resolve the problems related to the organization of settlements and the provision for shelter.

301 Anglo America (3) A regional study of the United States and Canada; human adjustment to and interaction with physical environment. Emphasis is placed on relations between the two nations.

302 Latin America (3) A regional study of Middle and South America; Hispanic historical and present-day adjustments to and interaction with physical environment.

303 Europe (3) A regional study of Europe, excluding the U.S.S.R. and its satellites, includes a macro-study of the continent, and sequential micro-studies of culturalized landscapes.

304 The Soviet Union (3) A regional study of European and Asiatic U.S.S.R., with analysis of geographic factors in relation to strengths and weaknesses as a major world power.

320 Land Use Planning (3) An inquiry into the development of comprehensive land use studies by governmental and private agencies, emphasizing the development of skills in problem identification and resolution.

322 Land Development Controls (3) An insight into the why and how of land development, emphasizing the role of local government in zoning, subdivision regulation, and other land regulations.

324 Data Systems for Planning (3) An inquiry into primary data sources needed in the planning process, emphasizing appropriate applications and actual limitations of data.

326 Geographical Analysis (3) Applications of basic statistical techniques to problems of spatial significance, emphasizing the adaptation of technique to problem, and the understanding and interpretation of specific analytical methods as applied to real-world situations.

328 Computer Graphics (3) Designed to develop skills in the design and use of analytical and computer-mapping systems, the course emphasizes the techniques of spatial problem-resolution and display.

330 Population Analysis (3) A course designed to develop skills in demographic research, emphasizing interrelationships of population processes, use and limitations of data sources, and the understanding and interpretation of specific demographic and related analytical methods.

400 Senior Seminar in Geography (3) Methods, bibliography, and presentation of research in geography. A research paper is prepared, and must be acceptable as a departmental senior research paper. For B.A. majors.

401 Cartography (4) A laboratory course to develop proficiency in the design, construction, and appropriate application of maps and map related graphics. Offered in spring.

410 Independent Studies in Geography (3) Research projects, reports, and readings in geography. PREREQ: permission of department chairperson.

415 Internship in Geography (3-15) Practical job experience in applying geographic theory, executing substantive research, and engaging in community service in selected off-campus situations. Open only to upper-division B.A. majors in geography.

POLITICAL SCIENCE

BACHELOR OF ARTS—GENERAL

The B.A. degree in political science is designed for those with interest in understanding their society and the world. It is especially relevant for careers in such fields as pre-law, politics, public relations, and journalism.

1. General Requirements, see pages 58-60 — 51 s.h.
2. Foreign Language/Culture Requirements — 0-15 s.h.
3. Additional Social Science Courses in each of 3 disciplines not selected under General Requirements* — 9 s.h.
4. History 152 or History 166 — 3 s.h.
5. Political Science Requirements — 33 s.h.
   A. American Government and Politics (PSC 100) or Introduction to Government and Politics (PSC 121)
   B. One course in each of the following six fields:
      International Relations: 217, 313, 314
      Political Behavior: 322, 324, 329
      Political Theory: 338, 339
      Comparative Government: 340, 341, 342, 348, 349
      American Government: 252, 350, 355, 356
      Public Administration: 361, 363, 364, 369, 374, 375, 377, 378
   C. Political Science Symposium (PSC 399)
   D. Senior Project (PSC 401)
   E. Two additional political science courses above the 100-level.
6. Cognate requirements. Courses outside the major but considered relevant for majors — 2-5 s.h.
7. Additional Free Electives — up to 30 s.h.

*This requirement is currently being reviewed by the College.

POLITICAL SCIENCE MINOR

Students may minor in Political Science Generally or in one of the sub-fields such as International Relations. This minor is open as an area of concentration under the A.A. degree. Students take either PSC 100 or 121 plus five courses in a concentrated area or areas under departmental advisement. Total required hours: 18.

COURSE DESCRIPTIONS

Symbol: PSC

★100 **American Government and Politics** (3) Devoted to understanding how the system works: political action, elections, interest groups, civil liberties, Congress, the presidency, and the courts are among the topics considered. Seeks to provide a framework in terms of which process and current issues become meaningful. Each semester.

★121 **Introduction to Government and Politics** (3) Survey of fundamental concepts in political science. Considers nature of the state, freedom, sovereignty, equality, theories of representation, other areas. Each semester.

★ Approved distributive requirement course

215 **Politics of the Law in Society** (3) Nature, functions, limits and sources of the law as an instrument of social and political control and direction. The political and social base and consequence of the development of the law as it applies to the poor, the ecology, property, contracts, torts and the criminally accused.

217 **American Foreign Policy** (3) Cultural, political, economic, and psychological influences on policy; process of decision making. Special attention to a few policy areas such as relations with allied, underdeveloped, revolutionary or Communist countries. Possible responses to threats of war, population growth, resource shortages, and pollution may be examined.

252 **Civil Liberties and Civil Rights** (3) A survey of the sources of civil liberties and civil rights in the United States with an inquiry into contemporary problems and their solutions

through statutory and constitutional developments.

301 Women in Politics (3) The role of women in politics is surveyed. Considerations include the relationship between the sexes as it impacts politics.

302 Women and the Law (3) The purpose of this course is to study the development of the legal/political status of women. Women's rights as a socio-political phenomenon will be examined in the private, legislative, and judicial arenas.

313 International Relations (3) Politics among nations, including politics carried on through international organizations. Examines power politics, techniques of diplomacy, and methods of current international organizations. Special attention to U.S. interests and policies.

314 Futuristic World Politics (3) Alternate ways to deal with problems arising from population growth and the new technology; shrinking resources, pollution, the menaced oceans and space, nuclear war. Theories are tested with social science knowledge and possibly some simulation. Offered periodically.

322 Public Opinion, Propaganda, and Political Behavior (3) The dynamics of opinion formation and change; the role of public opinion in policy formation; political socialization, survey research and propaganda techniques considered.

324 American Political Parties (3) Patterns, functions, and history of the American political party system at national, state and local levels. Theoretical and empirical studies of political interest groups, public opinion and voting behavior.

329 Judicial Behavior (3) A behavioral approach to the law, with specific reference to conceptual, methodological and ideological considerations. Depending on availability of information, role-playing simulations with students becoming judges and attorneys.

338 Introduction to Political Thought (3) Great political thinkers of Western Civilization from Plato to the present. Historical background of Western thought and its relevance to the present political world.

339 Contemporary Political Thought (3) Consideration of major political thinkers since Marx. Includes writings and political significance of Marcuse, Fromm, Lenin, Trotsky, and the Democratic Socialists.

340 Latin American Culture and Politics (3) Comparative analysis of contemporary Latin-American systems. Political cultures, decision-making, ideologies, political processes. Latin-American social systems are examined comprehensively, but Mexico, Brazil, Argentina and Chile are analyzed comparatively. Offered every other year. PREREQ: PSC 100 or equivalent.

341 Politics of non-Western Areas (3) Emphasis on the general problems of nation-building, political participation, and elite-mass relationships in the less developed nations. African nations, Latin American or Asian may be emphasized. PREREQ: PSC 100 or equivalent.

342 Government and Politics of Western Europe (3) Primary attention focuses on France, West Germany, and Great Britain; secondary attention on other European systems. Political cultures, popular participation, political parties, and formal institutions of government. PREREQ: PSC 100, or equivalent.

343 Culture and Politics of Asia Study of cultural, philosophical and political systems of modern Asia with special emphasis on China, Japan and India.

348 African Culture and Politics (3) The political nature and practices of individuals, organizations, and government of Black Africa are examined in the cultural context of the contemporary independent period. PREREQ: PSC 100, or equivalent.

349 Comparative Communism (3) Comparative analysis of the ideological, political, social, and economic systems of Communist nations. Concentration is on comparisons between the Soviet Union and Communist China, but other Communists systems are considered. PREREQ: PSC 100, or equivalent.

350 American Constitutional Law (3) The development of the American Constitutional System as reflected in leading decisions of the United States Supreme Court. Emphasis on national powers, federalism, and the Bill of Rights. PREREQ: PSC 100 or consent of instructor.

355 Congressional Politics (3) Deals with the internal and external factors which influence Congressional behavior includes the role of constituents, pressure groups, parties, the committee system, rules and the leadership. Relationships to president and court structure and impact of electoral politics also considered. Comparisons with state legislatures.

356 American Public Policy (3) Actual policy; its information and execution. Policy areas considered vary from semester to semester. May include role playing simulation. PREREQ: PSC 100 or 101 or permission of instructor.

399 Political Science Symposium (3) Nature of research in political science. Construction of a research design. Extensive reading in an area of political science. Each semester.

400 Senior Seminar in Political Science (3) Research in political science. Methodology, bibliography, and presentation, both oral and written.

The research paper for the seminar must be acceptable as a required departmental senior research paper.

401 Senior Project in Political Science (3) Execution of the research design constructed in PSC 399. Involves completion of major senior paper under supervision of a staff member. Extensive independent effort. PREREQ: PSC 399. Each semester.

410 Independent Studies in Political Science (1 to 3) Research projects, reports, readings in political science. Open to seniors only. PREREQ: permission of instructor.

412 Internship in Political Science (3 to 15) Upper level student field placement learning. Short term 3 to 6 hour experiences in political settings under faculty advisement: and 9 to 15 hour placements in state, federal, local governmental/public serving agencies. Learning contracts and faculty advisement create a whole experience from exposure to government administration and political interface. Each semester.

POLITICAL SCIENCE/PUBLIC ADMINISTRATION

BACHELOR OF ARTS—

The B.A. degree in Political Science with a concentration in Public Administration is interdisciplinary and intended to prepare students for a variety of possible alternatives in state, local, and national government as well as with private interest groups. The program features internship experiences with participating agencies.

1. General Requirements, see pages 58-60	51 s.h.
2. Foreign Language Requirements Intermediate Competency Required	0-15 s.h.
3. Additional Social Science Courses (in each of 3 disciplines not selected under General Requirements)*	9 s.h.
4. Public Administration Concentration, PAD 364, 356 or 374, 361 or 363, 375 or 376, 377, 378 GEO 216, 320, 322	21-27 s.h.
5. PAD 412 Internship	0-15 s.h.
6. A course in each of two of the following areas: Political Theory: 335, 338, 339 Political Behavior: 322, 329 International Relations: 217, 313, 314 Comparative Government: 340, 341, 342, 343, 348, 349	6 s.h.
7. Cognate requirements MAT 121, SPH 230 or SPH 109	3-6 s.h.
8. Additional Free Electives	up to 24 s.h.

*This requirement is currently being reviewed by the College.

POLITICAL SCIENCE: MINOR IN PUBLIC ADMINISTRATION

Students take PSC 100 and five additional courses in Public Administration under departmental advisement. This minor is open as an area of concentration under the A.A. degree.

COURSE DESCRIPTIONS

POLITICAL SCIENCE/PUBLIC ADMINISTRATION

Symbol: PAD

361 State and Local Government (3) Examination of the organization, functions, and politics of state and local government, including analysis of politics in states, counties, cities and towns in urban, suburban and rural areas. Intergovernmental relations in education, transportation, and welfare policy are examined.

363 Urban Government (3) Structures and processes of central city and suburban government are considered. Examines patterns and trends in governmental organization and administration as well as sources of conflict in urban decision making, e.g., the urbanization process, race and class antagonism, and city-suburban perspectives.

364 Elements of Public Administration (3) Considers public administration in the United States as a process of implementing public

policy. Uses case studies and projects with texts focusing on organizational theory, human behavior and motivation, budgeting, personnel, and administrative responsibility. Each semester.

369 Politics of Bureaucracy and Administrative Behavior (3) In-depth examination of the fourth branch of government. Impact of the administrative apparatus (bureaucracy) on public policy formulation and implementation. Case studies and student projects.

374 Municipal and Administrative Law (3) An in-depth examination of the impact of municipal law and local regulation and its social, economic, and political impact. Attention to such areas as zoning.

375 Government Finance (3) Policy choices for public sector economic activity. National state and local activities in allocation, distribution, stabilization functions; grants-in-aid; taxation, student projects in revenue studies. PREREQ: PAD 364, ECO 101 or 132.

376 Government Budgeting (3) Institutions and processes of budget formulation, authorization, and implementation at national, state, and local levels. Varying formats for budgets, line-items PPBS, Zero-base, PDS will be developed by students for some unit of government. PREREQ: PAD 364, ECO 101 or 132.

377 Government Personnel and Management (3) Examination of governmental recruitment practices, including current personnel classification and compensation policies, as well as government selection, recruitment, and promotion procedures. Managerial functions of oversight, supervision and motivation are heavily emphasized. Recommended PREREQ: PAD 364.

378 Public Organizations: Theory and Practice (3) Nature of public organizations such as government agencies, the environment of their operations, relations to public and private organizations, theories of their structure and behaviors, stressing the public setting and political processes which provide their functioning environment.

412 Internship in Public Administration (3 to 15) Same as PSC 412, but students with public administration concentration must meet PREREQ: PAD 364. Each semester.

Social Studies with Concentration in Government and Politics

Students interested in teaching any, or all, secondary school social studies may pursue a concentration in government and politics while earning state certification and the Bachelor of Science in Education degree. See description under Social Studies, page 193.

Health

Walter E. Funk, *Chairperson*

PROFESSORS: Lemcke, Nye

ASSOCIATE PROFESSORS: DeMillion, Fisher, Funk, Goetz, Huffman, Nowack, Reed, Steinmetz, Voss

ASSISTANT PROFESSORS: Boyle, Mustalish, Sheehan

The Department of Health offers programs in the following areas:

1. Health education, a preparation to teach health in schools, grades K-12;
2. Public health, a preparation to enter the field of community health through programs and services delivered by private, local, state, and national institutions;
3. A program in environmental health designed for students interested in improving health through control of environmental factors such as: air, water, food waste, radiation, and industrial hygiene;
4. A co-operative program leading to a bachelor of science degree for those dental hygienists and dental assistants who have completed their professional certification.

BACHELOR OF SCIENCE IN HEALTH EDUCATION

1. General Requirements	50 s.h.
Refer to pages 58-60 for a full explanation of the distribution of these requirements.	
Note that general requirements afford the major 9 s.h. of free electives.	
2. Specialized preparation	35 s.h.
A. Foundations of Health I, HEA 201	3
B. First Aid for Health Professionals, HEA 204	3
C. Organization and Administration of Public Health, HEA 242	3
D. Addictives for Health Professionals, HEA 302	3
E. Nutrition—Weight Control, HEA 303	3
F. Family Life and Sex Education, HEA 304	3
G. School Health Program, HEA 305	3
H. Human Anatomy, BIO 209	4
I. Human Physiology, BIO 309	4
J. Mental Hygiene, PSY 370	3
K. Seminar in Health, HEA 401	3
3. Professional Education Requirements	31 s.h.
A. School and Society, EDF 100	3
B. Psychology of Learning and Development, EDP 250	3
C. Introduction to Instructional Communications, EDM 300	3
D. Evaluation in Health and Physical Education, PED 351	3
E. Human Development, HEA 206	3
F. Preparation for Teaching Health, HEA 307	3
G. Field Experience in Health Education, HEA 308	1
H. Student Teaching, HEA 404	12
4. Related Requirements	13 s.h.
A. Speech Fundamentals: Interpersonal Communication, SPC 101	3
B. Introduction to Sociology, SOC 200	3
C. Introduction to Psychology, PSY 100	3
D. Chemistry and Man, CHE 100	3
E. Basic Experimental Chemistry, CHL 100	1
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BACHELOR OF SCIENCE IN PUBLIC HEALTH

1. General Requirements	50 s.h.
Refer to pages 58-60 for a full explanation of the distribution of these requirements.	
Note that general requirements afford the major 9 s.h. of free electives.	
2. Specialized Preparation	36 s.h.
A. Foundations of Health I, HEA 201	3
B. First Aid for Health Professionals, HEA 204	3
C. Community Health, HEA 241	3
D. Addictives for Health Professionals, HEA 302	3
E. Nutrition—Weight Control, HEA 303	3
F. Family Life and Sex Education, HEA 304	3
G. School Health Program, HEA 305/HEA 306	3
H. Basic Biological Science, BIO 100	3
I. Introductory Medical Microbiology, BIO 104	4
J. Human Anatomy, BIO 209	4
K. Human Physiology, BIO 309	4

3. Professional Education Requirements	45 s.h.
A. Human Development, HEA 206	3
B. Organization and Administration of Public Health, HEA 242	3
C. Chronic and Communicable Diseases, HEA 341	3
D. Preparation for Field Work, HEA 342	3
E. Seminar in Health, HEA 401	3
F. Field Experience Public Health, HEA 421	12
G. Mass Media in Society, ENG 261	3
H. Introduction to Instructional Communications, EDM 300	3
I. Introduction to Social Work, SWO 200	3
J. Human Problems, SWO 250	3
K. Introduction to Environmental Health HEA 108	3
L. Statistics, MAT 121	3
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4. Electives, under advisement
   Students may elect any of the following chemistry courses in place of Chemistry 100.
   Chemistry for Nurses, CHE 101
   General Chemistry I-II, CHE 103-104
   Chemistry: An interdisciplinary approach I-II, CHE 106-107

The Department of Health is in the process of revising the Public Health program of study. Consult the department for current information.

COOPERATIVE DEGREE PROGRAM FOR DENTAL HYGIENISTS AND DENTAL ASSISTANTS

The Degree of Bachelor of Science will be conferred upon dental hygienists and dental assistants meeting the following requirements:

1. Satisfactory completion of an approved dental hygiene program or dental assistant program of two years duration.
2. Satisfactory completion of 64 semester hours at West Chester State College, including:
   a) 50 s.h. general education requirements.
   b) A minimum of six (6) coordinated courses or 18 s.h. approved by an advisor assigned by the program coordinator.

Additional bachelor degrees are available in health education and public health.

Persons interested in practicing dental hygiene in an educational institution setting may have the option of obtaining courses in practica in education with respect to certification in education.

Applicants should consult the chairperson of the Department of Health about available concentrations within this program.

CONCENTRATION IN ENVIRONMENTAL HEALTH

1. GENERAL EDUCATION	50 s.h.
See pages 58-60 for a full explanation of these requirements	
2. REQUIRED BY THE COLLEGE	1 s.h.
SOC 135 Human Relations Experience (1)	
3. PUBLIC HEALTH CORE	21 s.h.
HEA 201 Foundations of Health I (3)	
HEA 241 Community Health (3)	
HEA 242 Organization & Administration Public Health (3)	
HEA 421 Internship (12)	

4. REQUIRED COURSES — 6 s.h.
   HEA 350 Environmental Health (3)
   HEA 455 Environmental Health Seminar (3)
5. ENVIRONMENTAL HEALTH ELECTIVES — 10 s.h.
   HEA 360 Air Quality and Health (3)
   HEA 361 Water Quality and Health (3)
   HEA 362 Occupational Health and Safety (3)
   HEA 363 Solid Waste Management (2)
   HEA 364 Food Sanitation (2)
   HEA 365 Institutional Environmental Health (2)
6. SUPPORTING COURSES—SELECTED UNDER ADVISEMENT — 43 s.h.
   HEA 105 Consumer Issues (3)
   CHE 103 General Chemistry I (3)
   CRL 103 General Chemistry I Lab (2)
   CHE 104 General Chemistry II (3)
   CRL 104 General Chemistry II Lab (2)
   CHE 230 Introduction to Organic & Biological Chemistry (3)
   CRL 230 Basic Experimental Organic & Biological Chemistry (2)
   CHE 321 Analytical Chemistry (3)
   CRL 321 Analytical Chemistry Lab (2)
   BIO 110 General Biology (4)
   BIO 364 Bacteriology (4)
   BIO 370 Ecology (4)
   BIO 484 Epidemiology (3)
   SPC 109 Communication & Social Action (3)
   CSC 101 Introduction to Computers (3)
   CSC 121 Computer Uses and Abuses (3)
   GEO 214 Regional Planning (3)
   GEO 232 Environmental Crises (3)
   PAD 361 State and Local Government (3)
   PAD 363 Urban Government (3)

MINOR IN SCHOOL HEALTH EDUCATION

Core Courses.

HEA 208 Basic Health Concepts (new course)	3 s.h.
HEA 204 First Aid for Health Professionals	3 s.h.
HEA 303 Nutrition/Weight Control	3 s.h.

Three electives from the following (with departmental advisement):

HEA 103 Addictive Diseases	3 s.h.
HEA 105 Consumer Issues	3 s.h.
HEA 106 Death and Dying	3 s.h.
HEA 107 Parenthood Education	3 s.h.
HEA 108 Introduction to Environmental Hlth	3 s.h.
HEA 304 Family Life & Sex Education	3 s.h.
Total	18 s.h.

COURSE DESCRIPTIONS
HEALTH
Symbol: HEA

The first number in parentheses shows number of class meetings per week; the second one shows semester hours of credit.

102 Mental Health (3) (3) Designed to aid persons in improving their understanding of themselves and others. Emphasis on ways to recognize mental health problems.

103 Addictives (3) (3) Thorough study of all addictives in relation to the individual and society.

104 Human Sexuality (3) (3) Study of sexuality as it relates to self; the interrelationships with persons.

105 Consumer Issues (3) (3) Study of consumer issues today that relate to the field of health.

106 Contemporary Issues In Living and Dying (3) (3) Current controversial issues including death and dying. How involved persons cope with death.

107 Parenthood Education (3) (3) Examining the role of the parent; improvement of parent-child relationships.

108 Introduction to Environmental Health (3) (3) Methods of promoting health by controlling environmental factors relating to air, water, food, wastes, accidents, housing, radiation, and industrial hygiene.

201 Foundations of Health I (3) (3) Fundamental knowlege of the major health problems.

202 Foundations of Health II (3) (3) Fundamental knowledge of the major health problems. PREREQ: 201.

203 Criminal Justice Health (3) (3) Prepares the student to recognize health problems, and to perform effectively in emergency health-related situations.

204 First Aid for Health Professionals (3) (3) Prepares students entering the professional field of health to meet emergencies requiring first-aid procedures.

206 Human Development (3) (3) Study of growth from conception through adolescence from the mental, emotional, and physical viewpoints.

207 Health for Early Education (3) (3) A study of health education content and methods that will lead to the development of good health practices in young children. PREREQ: EDE 251.

241 Community Health (3) (3) Community health problems and services considered on the local, national, and international levels. Includes practical experience.

242 Organization and Administration of Public Health (3) (3) A study of the components, functions, and interrelationships that are parts of any program and/or organization in public health.

301 Health for the Elementary Grades (3) (3) Principles and procedures for meeting the health needs of the child.

302 Addictives for Health Professionals (3) (3) Thorough study of the health professionals responsibility in controlling addictive practices by members of society in such areas as alcoholism, drug use, etc.

303 Nutrition—Weight Control (3) (3) Practical approach to the role nutrition and dietetics plays in improving the quality of our lives, socially, physically, mentally, and emotionally. Dispelling of fads and fallacies.

304 Family Life and Sex Education (3) (3) Basic concepts and objectives of such a program for students at different age levels. Organizing, launching, and evaluating the program.

305 School Health Program (3) (3) School health services, environment, health instruction, and organization and administration of a school health program.

306 Preparation for Classroom Teaching (3) (3) A comprehensive study of the materials available in health education and the techniques for their prompt implementation. PREREQ for health and physical education majors: HEA 202, 305.

307 Preparation for Teaching Health (3) (3) A comprehensive study of the materials available in health education and the techniques for their proper implementation. PREREQ for health education majors: HEA 201, 302, 305.

308 Field Experience in Health Education (2) (1) Observations and aid experience of classroom teaching in health education.

341 Chronic and Communicable Disease (3) (3) The study of diseases, causes, effects, and control.

342 Preparation for Field Work (3) (3) A comprehensive study of those areas leading to a successful field experience.

350 Environmental Health (3) (3) Methods of promoting health by controlling environmental factors relating to air, water, wastes, housing, radiation, and industrial hygiene.

360 Air Quality and Health (3) (3) A consideration of the types and amounts of air contaminants; the atmospheric processes that transport them; and the role of air quality in human health.

361 Water Quality and Health (3) (3) An examination of the biological, physical, and chemical mechanisms which influence water quality and their implications for human health; water and wastewater treatment processes will also be evaluated.

362 Occupational Health and Safety (3) (3) Basic health and safety principles of the working environment with emphasis on the types of health hazards and preventive techniques.

363 Waste Management (2) (2) Sources, characteristics, and amounts of solid and hazardous wastes, and their implications for human health; methods of collection, handling, and disposal; recycling.

364 Food Sanitation (2) (2) Basic principles of food hygiene; health problems associated with

production, processing, and distribution of foods; methods of inspection and supervision.

365 Institutional Environmental Health (2) (2) Environmental health concepts and problems unique to the institutional setting: schools, colleges, hospitals, nursing homes, mental health facilities, correctional institutions, and health aspects of the residential environment will also be considered.

401 Seminar in Health (3) (3) A seminar required of all seniors that are school health and public health majors which involves researching and conducting seminars in the current critical health issues.

402 Workshop in Family Life and Sex Education (3) (3) Basic concepts and objectives of such a program for students at different age levels includes: organizing, launching, and evaluating the program. Summer only.

403 School/Community Health Workshop (3) (3) A study of common problems relating to health for the home, school, and community.

404 Student Teaching—Health (12) Practical classroom experience in teaching health education. PREREQ: HEA 303, 304, 305, 307, 308.

421 Field Experience Public Health (12) Practical field experience working in some facet of the public health field.

455 Environmental Health Seminar (3) (3) In-depth investigations and discussions on topics of particular concern or significance to the environmental health field. Topics will be varied from year to year.

History

Harry G. Schalck, *Chairperson*

Norbert C. Soldon, *Assistant Chairperson*

PROFESSORS: Carlson, Crowley, Foster, Fox, Harding, Johnson, Riley, Schalck, Sessa, Shur, Soldon, Stuart, Swan, Turner, Webster, Young

ASSOCIATE PROFESSORS: Burgwyn, Doyle, Peters, Shaffer,

ASSISTANT PROFESSOR: Heston

The student of history seeks to recreate the past (or, more precisely, as much of it as possible) not only rationally to explain and understand the past for its own sake, but also to identify himself and his age with earlier times. He is concerned with the origins and development of and relationships between past people and events and, from the multiplicity of credible and sometimes conflicting evidence, renders judgments on causation and consequences. He seeks to achieve a sense of the past. Among the careers open to history majors are the law, government service, teaching, research, journalism, and business. Indeed, a strong preparation in history can lead to possibilities in virtually every field of endeavor. The Department of History office is 506 Main Hall; the telephone number is (215) 436-2201.

BACHELOR OF ARTS—HISTORY

1. General Requirements, see pages 58-60	51 s.h.
2. Foreign Language Requirement	12-15 s.h.
3. Social and Behavorial Sciences Core Requirements, (for students enrolled prior to May, 1980)	18 s.h.
4. History Concentration Requirements	30-33 s.h.

HIS 102, 151, 152 (9 s.h.) and HIS 101 taken under general requirements
Senior Seminar (HIS 400)(3 hrs.)
Group 1 American History (6 hrs.)
Group 2 European History (6 hrs.)
Group 3 World and Regional History (6 hrs.)
History Electives (3 hrs.)

5. Cognate Courses 12-15 s.h.
   Four cognate courses selected from literature, art, philosophy.
6. Additional Free Electives to complete 128 s.h.

BACHELOR OF SCIENCE IN EDUCATION

Comprehensive Social Studies: History (concentration)

Students interested in teaching secondary school social studies may pursue a concentration in history while earning state certification and the Bachelor of Science degree. See description under COMPREHENSIVE SOCIAL STUDIES: B.S. IN EDUCATION, Page 193.

GROUPS 1, 2, and 3

GROUP 1 AMERICAN HISTORY
HIS 151, 152, 344, 345, 351, 352, 353, 354, 355, 356, 357, 358, 359, 360, 361, 362, 363, 364, 370, 372, 373

GROUP 2 EUROPEAN HISTORY
HIS 219, 220, 320, 321, 322, 323, 324, 325, 326, 327, 330, 331, 333, 334, 335, 336, 345, 346, 347

GROUP 3 WORLD AND REGIONAL HISTORY
HIS 101, 102, 145, 218, 301, 305, 306, 309, 310, 311, 312, 315, 316, 317, 348

STUDENTS IN ALL PROGRAMS GIVEN IN THE HISTORY DEPARTMENT NOTE:
Under General and/or Social and Behavioral Sciences Core Requirements, all students must complete HIS 101, 102, 151, and 152

HISTORY MINOR

Students may obtain minor recognition on their transcript so that their concentrated choice of free electives will be recognized. This minor may be taken as a concentration by students in the AA Program.

Required Courses: HIS 101-102 or HIS 151-152	6 s.h.
Elective Courses, chosen under advisement, from three groups: American, European, World and Regional History (6 s.h. in one group; 3 s.h. in each of the others)	12 s.h.
	18 s.h.

COURSE DESCRIPTIONS

HISTORY

Symbol: HIS unless otherwise shown

GENERAL

SSC 331 Teaching Social Studies in Secondary Schools (3) Methods and materials of teaching social studies for prospective secondary school teachers. Emphasis is on the "New Social Studies" and instructional materials drawn from the social sciences. Taken by social-science education majors in their junior year. Must be successfully completed prior to doing student teaching.

SSC 380 Ethnic Cultures Workshop (3) A summer workshop sponsored jointly by the Schools of Arts and Letters and Social and Behavioral Sciences. Contributions of ethnic groups to the United States culture are considered. Open only to juniors and seniors. PREREQ: Permission of the dean of the School of Social and Behavioral Sciences.

HISTORY

★ **100 Mainstreams in History** (3) A topical interpretation of mankind's cultural development from the earliest times to the present.

†**101 History of Civilization I** (3) Man's cultural elements and social institutions in the West and the East from earliest times through the Renaissance.

†**102 History of Civilization II** (3) Developments in civilizations from 1500 to the present, with emphasis on Western Civilization and its interrelationships with the non-Western world.

★ Approved distributive requirement courses.

†HIS 101-102: Approved two-semester substitute for distributive requirement.

120 **Impact of War on European Society** (3) An examination of the interrelationship of warfare and society in Europe from the feudal period to the present.

122 **Major Figures in European History** (3) A study of the major figures in European history (1450-1980) and their interaction with the dynamic forces of their times.

126 **History of Utopias** (3) Study of the history of Utopias and Utopian schemes from Plato's Republic to contemporary American communes. Utopia, both as an antidote for reality, and as a seed-bed for social, political, and economic reform.

140 **Emerging Nations** (3) A survey of non-Western societies and the impact of Westernization of the traditional cultures of Africa, or Asia, or Latin America, or the Middle East. Area focus varies with instructor.

145 **The Jew in History** (3) Review of the four thousand years and five civilizations which have welcomed the Jewish people; emphasis on the Jews in contemporary society.

146 **The Holocaust** (3) Focuses on ethnic, nationalistic, economic and religious causes. 20th century Nazism, racism, anti-Semitism and, the Nuremburg Trials.

151 **History of United States I** (3) The social, economic, political, and intellectual development of the United States from the beginning of the Colonial period through the Civil War.

152 **History of United States II** (3) The social, economic, political, and intellectual development of the United States from 1865 to the present, with emphasis on the new industrialism and on foreign affairs.

161 **Violence in America** (3) A study of violence in American society both as an instrument of change and a method of social control.

163 **American Minorities** (3) A survey of racial, religious, and ethnic minorities and their struggles and successes in the United States.

164 **Depression Decade: The Thirties** (3) Selected problems of the depression decade, with emphasis on the political, social, and personal reactions to the period.

165 **The Turbulent Sixties** (3) Examination of the stress and conflict in American politics, arts, literature, and society of the 1960's.

166 **20th Century America** (3) A survey of the United States since 1898. Emergence of the nation as a world power is stressed.

167 **Popular Culture in Twentieth-century America** (3) Survey of the history of modern American popular culture and arts, and their impact on our society. Popular literature, the motion picture industry, popular music and the mass media are explored.

218 **The Ancient World** (3) Classical Greece and Rome with consideration of economic, social, intellectual, and political history. Selected writings of the ancients.

219 **Medieval Europe** (3) Western Europe from the fall of Rome to appoximately 1300. Economic, social, political, and intellectual developments in the major kingdoms of the West; the history of the Universal Church.

220 **Renaissance and Reformation** (3) Political, economic, social, and cultural forces which emerged in Europe, 1300 to 1650. The evolution of modern states and the rise of the middle class.

301 **History of South Asia** (3) A historical study of developments on the Indian subcontinent (India and Pakistan), the course also considers those areas of Southeast Asia (Burma and Thailand) which have been traditionally influenced by the course of Indian events.

302 **(also ANT 327) Cultures and Peoples of India** (3) Hindu and Muslim social structures; village-based societies; religious, cultural, social structures, urbanization; Indian minority social patterns (Parsi, Jewish, Christian).

305 **History of East Asia** (3) Survey of the historical and cultural background of China, Japan, and Korea. Emphasis is given to the significance of the modern period of East Asia and its impact on world affairs.

306 **20th Century Japan** (3) Role of Japan in Asian and World Affairs from the Meiji Restoration of 1865 through World War II and until the present time, ending with an attempt to look into the future progress of Japan as an Asian power.

309 **History of Middle East** (3) Recent history of the major Middle Eastern countries. Geographical, cultural, economic, and religious factors which have influenced the history of the area. Special attention to Middle East problems which affect international relations.

310 **The Arab and the Jew** (3) Cultural and historical background and events which have shaped the present Arabic and Jewish views; emphasis will be placed on their current relations with each other.

311 **History of Africa to 1800** (3) A survey of the traditional culture and the historical development of the African continent prior to the 19th-century. Emphasis is upon the length and diversity of Africa's history prior to European colonization.

312 **History of Sub-Saharan Africa Since 1800** (3) A survey of Black Africa's developments in the 19th and 20th centuries. Emphasis is upon Africa's colonial experience as the background for the emergence of independent Africa.

315 **History of Latin America to 1825** (3) Pre-Columbian period, colonial Latin America and movements for independence; Indian, European, and African backgrounds; government, economy, society, religion, culture, and enlightenment. Interaction of diverse cultures in New World.

316 **History of Latin America Since 1825** (3) Latin America in 19th and 20th centuries; liberalism, conservatism, dictatorship, revolution, socialism, industrialization, agrarian reform, cultural-intellectual achievements, and international relations. Topical approach, using individual countries as case-history illustrations.

317 **History of Mexico** (3) Mexico from Pre-Columbian period to present including civilizations of Mayas and Aztecs, Spanish conquest, Colonial Period, movement for independence era of Santa Anna, La Reforma, Diaz dictatorship, Mexican Revolution, cultural-intellectual achievements, international relations, and modernization of Mexico since the Revolution.

320 **Women in Modern Europe** (3) Lives and careers of women in the 19th and early 20th centuries through autobiographies. The problem of women's self-image and sense of identity.

321 **History of England to 1688** (3) The British people and their institutions from Roman times to the Glorious Revolution, with primary emphasis on the Tudor and Stuart periods.

322 **History of England Since 1688** (3) England as a world leader during the Commercial and Industrial Revolutions, the evolution of the democratic process, and the emergence of liberalism followed by the democratic welfare state.

323 **Modern Germany** (3) Germany in the 19th and 20th centuries: Napoleonic era, rise of Prussia, nationalism and unification, imperialism and World War I, National Socialism, World War II, and divided Germany.

324 **Russian History to 1917** (3) Russian history from 9th century Kiev to the end of the Imperial period. Major emphasis on the continuing religious, economic, social, and political tradition peculiar to the Russian State.

325 **Soviet Russia** (3) Political, economic, social, and cultural aspects of Soviet society in the light of traditional Russian patterns and the goals of Communism.

326 **History of Modern Italy** (3) A study of Italian unification, the Era of Liberalism, Fascism, and post World War II developments.

327 **Modern France, 1789 to Present** (3) French Revolution; Napoleon; Bourgeois France; Third Republic; The Great War and Versailles; Nazism and the Popular Front; The Collapse of 1940; The Fourth Republic; The DeGaulle Era.

330 **Conflicts in Modern Europe** (3) Power politics in Europe; alliances and counteralliances; imperialism; First World War and Versailles peace settlements; emergence of totalitarian ideologies.

331 **20th Century Europe** (3) European fascism and communism; totalitarianism confronts liberalism; interaction between domestic politics and foreign policy; polarization of European politics; disintegration of the political institutions of the traditional state.

333 **European Economic History** (3) European demographic and technological change; trade unions; agriculture; trade; the entrepreneur; distribution of income and welfare from 10th century to the present.

334 **European Intellectual History (1250-1800)** (3) The development of Western thought and culture from the High Middle Ages to the origins of Romanticism and Democracy.

335 **European Intellectual History Since 1800** (3) Ideas and the arts in modern European history, from Romanticism to Existentialism.

336 **The European City** (3) Urban life in Europe from Periclean Athens to now. Interaction of people with their material environment.

344 **History of Pennsylvania** (3) The founding and development of Pennsylvania from its Colonial beginnings to the present, with emphasis on the relation of the past to the present.

345 **Oral History** (3) An examination of contemporary history by making taped interviews of the reminiscences of people involved in recent political events; human right movements; local or national issues, etc.

346 **Jesus and the 20th Century** (3) Jesus' significance seen through "The Historical Jesus School," scientific socialism, nationalism, colonialism, existentialism, liberalism, neoorthodoxy, ecumenicity, charisma, "the Jesus People," Marxist-Christian dialogue.

347 **Jesus and Marx** (3) The relationship between Christianity and Marxism from the confrontation and contradiction of the nineteenth century to the coexistence and cooperation of the twentieth century.

348 **The Bible in History** (3) The Bible as a historical record. From the Pentateuch, through the prophetic literature, the Apocrypha, the Pseudepigrapha, the Dead Sea Scrolls to the New Testament. Historical records of other ancient Near Eastern civilizations will be compared with Biblical sources.

351 **Women in America** (3) American women's daily routines, social roles, and search for rights and identity since colonial days. Recent goals, values, and conflicts.

352 **Modern American Military History** (3) The role of the American military in shaping the course of the nation in the twentieth century.

353 **(also ANT 260) Artifacts and Culture** (3) Patterns of American civilization explored through study of the material culture.

354 **U.S. Labor History** (3) History and analysis of labor organizations: labor and government; labor and political parties; women and children and minority groups in labor organizations; the strike; technology and labor; Big Labor.

355 **American Intellectual History** (3) Political and economic thought, theology, science, philosophy, literature.

356 **U.S. Environmental History** (3) Three centuries of change in American attitudes and actions toward the environment, with emphasis upon the roots and development of today's ecology crisis.

357 **Diplomatic History of the United States** (3) The theory and practice of American diplomacy from Colonial times to the present with emphasis on the 20th century.

358 **Economic History of the United States** (3) The economic development of the American nation as it evolved from a frontier, agricultural country into an urban, industrial power.

359 **History of the American Frontier** (3) The westward movement and expansion from Colonial times to the end of the 19th century. The frontier forces which shaped American democratic institutions and ideals.

360 **Technology and American Life** (3) Promises and practices of American life in response to the interaction of American forms, values and scientific-technological change from the colonial period to the present.

361 **Constitutional History of the United States** (3) The development of the Constitution of the United States from the Philadelphia convention to the present with emphasis on major supreme court decisions.

362 **Social and Cultural History of the United States** (3) The evolution of American society with emphasis on the impact of improving material conditions upon labor, the arts, education, religion, social mores, and family life. The changing status of women, blacks, and immigrants.

363 **History of the South** (3) The social, economic, political, and intellectual forces that have made the American South.

364 **U.S. Urban History** (3) A survey of the rise of the American city from early Philadelphia to the modern metropolis. The recurring themes of growth, immigration, social mobility, city politics, city planning, urbanism, and surburbanism.

365 **Catholic Immigrant and Institutions: Their Place in American History** (3) The role of American Catholic immigrant communities from the colonial period to the present. Emphasis on Irish, Italian, and Slavic ethnics.

370 **American Indians** (3) A survey of Indian civilization on the continent of North America and the confrontation of this civilization with white culture.

372 **Topics in Afro-American History** (3) Topics vary each semester. Emphasis on student research and participation in discussions. PREREQ: HIS 373 or consent of instructor.

373 **Afro-American History** (3) The Afro-American: origins, period of slavery, industrialization of the South, migration to northern urban centers, civil rights movements, and the evolution of "Black Power."

400 **Senior Seminar in History** (3) Research in history. Methodology, historiography, and presentation, both written and oral. The research paper for the seminar must be acceptable as a required departmental senior reseach paper. Required of all history majors.

410 **Independent Studies in History** (1 to 3) Research projects, reports, readings in history. Open to seniors only. PREREQ: Permission of department chairperson.

450 **Internship in History** (1 to 3)

460 **Field Studies in History** (3)

Instructional Media Education

Joseph M. Spiecker, *Chairperson*
PROFESSOR: Strayer
ASSOCIATE PROFESSORS: Redmond, Spiecker
ASSISTANT PROFESSORS: Reis, Steinmetz
INSTRUCTOR: McCoach

West Chester's program in this field is at the graduate level. See the Graduate Studies Bulletin for details. The following undergraduate courses are available through the Department of Instructional Media Education.

COURSE DESCRIPTIONS
INSTRUCTIONAL MEDIA EDUCATION
Symbol: EDM

300 Introduction to Instructional Communications (3) Techniques, materials and equipment, and the development of skills in their use in teaching.

450 Design and Production of Visual Communication Materials (3) Exploration of visual communication materials through use of research materials, demonstrations, and various production techniques. The student designs and produces visual communication materials.

460 Basic Photography (3) Workshop-type course stressing the photographic processes. Camera handling, with film and print processing included. Students must have complex camera and must purchase personal supplies.

470 Motion Picture Production (3) Scripting and shooting of super 8 film, including magnetic sound recording and reproduction.

475 Sound Reproduction in Educational Communication (3) Theory and practice in sound recording and reproduction and their application in education.

480 Closed Circuit Television Production (3) A production course emphasizing the practical work of all aspects of closed-circuit television. Preparation of scripts, graphics, animations. photos, films, film loops, slides, sound recordings, models, guides for learning and teaching, lighting, staging, electronic technical information.

Latin-American Studies

Offered jointly by the Faculty of Arts and Science and the Faculty of Professional Studies.
Any student in the college, regardless of his or her area of specialization, may earn transcript recognition and a letter of verification in Latin-American Studies after satisfactory completion of 21 semester hours of work, distributed as follows:

LATIN AMERICAN STUDIES	21 s.h.
Required: Either A or B	
A. 1. Spanish or Portuguese (Intermediate level or above)	6 s.h.
2. Latin-American History	6 s.h.
OR	
B. 1. Latin-American History	6 s.h.
2. Latin-American Civilization and Thought	6 s.h.

Electives: As advised, from Latin-American-oriented courses offered by the Departments of Anthropology and Sociology, Government and Planning, Economics, Art, or other departments of West Chester State College. In track A, one three (3) credit course must be devoted to literature, art history, or music. 9 s.h.

For advisement, see Professor Braidotti in the Department of Foreign Languages or Professor Crowley in the Department of History.

A student should maintain a 3.0 average in area-studies courses to be recommended for graduate work in the area-studies concentration.

Mathematical Sciences

Frank E. Milliman, *Chairperson*

PROFESSORS: Filano, Grosshans, Koh, L'Heureux, Mandelbaum, Montemuro, Weaver

ASSOCIATE PROFESSORS: Ahlborn, Fabrey, Fasnacht, Kerrigan, Milliman, Morgan, Moser, Seybold, Verno

ASSISTANT PROFESSORS: Schremmer, Stanley, Wiener, Wolfson

INSTRUCTORS: Cooper, Edelman, Hayworth (part-time), Perry (part-time), Skeath (part-time)

The major in mathematics begins with a basic core program including computer science, foundations, and calculus. This is followed by a required sequence of courses covering the major areas of mathematics. Additional specialization in specific branches of mathematics is possible through available electives.

BACHELOR OF ARTS—MATHEMATICS

The B.A. program in mathematics enables each student to receive the basic preparation required for the career of his/her choice. Among these are college and university teaching, research and other service in government and industry, and computer programming. In all cases each student receives a sound preparation for graduate study in the field of mathematics.

Beyond meeting the general requirements of 51 s.h., the major in this program pursues the following curriculum:

Foreign Language Requirement **0-12 s.h.**
Through the Intermediate II level in French, German, or Russian.

Related Requirements
CSC 141
PHY 101-102:
Electives (12 s.h.)

This 12-hour elective program in mathematics or related areas must be approved by the department at the time of junior standing.

Mathematics Concentration Requirements
MAT 110, 141, 142, 211, 232, 241, 242, 343, 411, 421; electives in mathematics (12 s.h.)

Electives to complete 128 s.h.

BACHELOR OF ARTS—MATHEMATICS
Computer Science Concentration

The major who selects the computer science concentration also meets the general requirements of 51 s.h. and the foreign language requirement given above. Specifically, the requirements are:

Requirements in Mathematics and Science
Mathematics
MAT 110, 141, 142, 241, 242, 343, 421, 425; electives in mathematics (6 s.h.)

Science
PHY 111

Computer Science Requirements
CSC 141, 142, 241, 242, 490 (3 s.h.); electives in computer science (6 s.h.)

Electives to complete 128 s.h.

BACHELOR OF SCIENCE—COMPUTER AND INFORMATION SCIENCES

Prepares the student for a career in the field of computer and information sciences. Course work is taken in computer science, mathematics, and either business or another area of the student's choice. In addition, the student gains valuable on-the-job experience through an internship program with local industry or business. Normally this program requires attendance during two summer sessions in addition to the 8 academic semesters. Beyond meeting the general requirements of 51 s.h., the student pursues a core curriculum and one of the following 3 tracks:

Information Systems—prepares the student to use the computer as a tool for management in business and industry. (Systems Analyst)

Computer Systems—prepares the student to engage in the design, development and effective use of computer systems through emphasis on software and computer system structure. (Systems Programmer)

Computer—Arts and Science—prepares the student to be an effective computer user in an approved area of his/her choice.

CORE CURRICULUM

COMPUTER SCIENCE REQUIREMENTS
CSC 141, 142, 241, 242, 361

MATHEMATICS REQUIREMENTS
MAT 161, 162, 261, 221

COOPERATIVE EXPERIENCES
CSC 200, 300, 400

INFORMATION SYSTEMS TRACK REQUIREMENTS
CSC 321, ACC 201-202, MGT 201, MKT 221, ECO 131, ENG 268, 6 s.h. of electives in business, computer science, or mathematics, and electives to complete 128 s.h.

COMPUTER SYSTEMS TRACK REQUIREMENTS
CSC 331, 341, ACC 201, ENG 268, 9 s.h. of electives in computer science and mathematics, and electives to complete 128 s.h.

COMPUTER—ARTS AND SCIENCES TRACK REQUIREMENTS: Sequence of courses approved by Department of Mathematical Sciences and the appropriate academic department (21 s.h.), and electives to complete 128 s.h.

BACHELOR OF SCIENCE IN EDUCATION—MATHEMATICS

The major in this program meets the general requirements of 51 s.h., the professional education requirements of 30 s.h. (see page 104), and the following specialized requirements.

Requirements in Mathematics and Science

Mathematics
MAT 110, 141, 142, 211, 231, 241, 242, 343, 350 (credited to professional education), 411, 421; electives in mathematics 12 s.h.

Related Requirements
PHY 101-102

Electives to complete 128 s.h.

COURSE DESCRIPTIONS
MATHEMATICS
Symbol: MAT

101-102 Mathematics for Elementary Teachers I-II (3) (3) Formal development of the natural numbers, integers, rationals, reals, and complex numbers; probability; intuitive geometry. 101 must precede 102. For elementary education majors only.

103 Introduction to Mathematics (3) An introduction to the nature and spirit of mathematics and its cultural significance. Designed for general education.

105 College Algebra and Trigonometry (3) A unified course in algebra and trigonometry. PREREQ: High school algebra.

107-108 Calculus for Business (3) (3) Differential and integral calculus with emphasis on applications. Also includes the study of matrices, determinants, and linear programming using the simplex method. 107 must precede 108.

110 Foundations of Mathematics (3) Topics such as set theory, relations, induction, and the real number system are formally treated. Special topics such as number theory, intuitive geometry, probability, and congruences are examined in an informal setting.

121 Statistics (3) Basic concepts of statistics. Frequency distributions, measures of central tendency and variability, correlation, probability and theoretical distributions, significance of differences, and hypothesis testing. For non-mathematics majors.

121L Statistics Lab (1) Introduces the student to using and programming the computer to solve statistical problems and to aid the student in understanding statistical concepts. The BASIC language is used.

141-142 Calculus I-II (3) (5) The calculus of real valued functions of a single real variable, including series. 141 must precede 142.

161-162 Applied Calculus I-II (4) (4) Emphasis on problem solving and applications characterize this course in differential and integral calculus. When applicable, computer experiments in APL are introduced to support the theory and application of the calculus. Must be taken in order. PREREQ: Good working knowledge of high school Algebra and Trigonometry.

161L Applied Calculus Lab (1) A series of numerical experiments illustrating fundamental concepts and applications of calculus is presented. The experiments, written in the APL computer language, are performed by the student and supported by hand calculation. The ability to computer program is not a prerequisite. This lab is primarily for computer science majors.

209 Topics in Mathematics for the Elementary Teacher (3) Introduction to programming in BASIC; computer uses for the classroom teacher; descriptive statistics with applications for teaching; and measurement of length, area, volume and temperature that focuses on the SI metric system with practice in the classroom. Additional topics in applied mathematics will be considered. PREREQ: MAT 102. Offered in fall.

211 Linear Algebra (3) An introduction to linear algebra. Topics covered include matrices, systems of linear equations, vector spaces, linear transformations, determinants, eigenvalues, spectral theorem and triangulation.

212 Algebra for Elementary Teachers (3) Formal structure of groups, rings, and fields with examples from the elementary curriculum. Topics from linear algebra including matrices, determinants, and linear programming. PREREQ: MAT 102. Offered in spring.

221 Applied Statistics (3) Probabilities, discrete and continuous probability distributions, methods of estimation and hypothesis testing, linear regression. PREREQ: CSC 141 (or equivalent) and MAT 162 (or equivalent). Usually offered in spring.

231 Foundations of Geometry (3) Geometric foundations from an advanced viewpoint. Topics are chosen from euclidean and non-euclidean geometries. Offered in spring.

232 Differential Geometry (3) Classical differential geometry from a modern viewpoint. Curves and surfaces; shape operators; introduction to Riemann geometry. PREREQ: MAT 242.

233 Geometry for Elementary Teachers (3) Modern informal approach to two and three-dimensional geometric figures, measurement, similarity, congruence, coordinate geometry and the postulational method. PREREQ: MAT 102. Offered in fall.

241-242 Calculus III-IV (3) (3) The calculus of several variables. Topics include the algebra and geometry of n-dimensional euclidean space, linear transformations, directional derivatives, integration and Stokes' Theorem. PREREQ: MAT 142. 241 must precede 242.

261 Introduction to Mathematical Models (4) The Calculus and the Computer are used to analyze deterministic, axiomatic and probabilistic models. Topics in finite mathematics are in-

troduced as needed. PREREQ: MAT 162 (or MAT 142) and CSC 141 (or equivalent). Usually offered in fall.

321 Combinatorics and Graph Theory (3) Introduction to set theory, graph theory, and combinatorial analysis. Includes relations, cardinality, elementary combinatorics, principles of inclusion and exclusion, recurrence relations, zero-one matrices, partitions, and Polya's Theorem. PREREQ: CSC 101 or CSC 141 and MAT 261 or MAT 242.

340 Analysis for Elementary Teachers (3) An intuitive introduction to theory of calculus: limits, continuity, the derivative and the integral. PREREQ: MAT 102 or consent of professor.

343 Differential Equations (3) The general theory of nth order, linear differential equations including existence and uniqueness criteria and linearity of the solution space. General solution techniques for variable coefficient equations, series solutions for variable coefficient equations, and study of systems of linear equations. PREREQ: MAT 241. Offered in spring.

350 Foundations of Secondary Mathematics Education (3) Aims of mathematics instruction, implications of learning theory, contrast current mathematics programs, significance of research, identification of current issues, analysis of current approaches to the teaching of mathematics, lesson preparation, use of teacher-made and commercially available tests and instructional materials. PREREQ: MAT 241. Offered in fall.

351 Teaching Mathematics in Elementary Schools I (3) Concepts, learning aids, syllabi, texts, and methods in elementary school mathematics. PREREQ: MAT 101-102.

352 Teaching Mathematics in Elementary Schools II (3) Techniques for teaching children concepts such as geometry in two and three dimensions, number sentences, graphing, ratios and percent, quantifiers, etc.; use of laboratory materials will be emphasized. PREREQ: MAT 351. Offered in spring.

354 Techniques of Teaching Secondary School Mathematics (3) Techniques used in the presentation of specific mathematical concepts, associated materials, levels of questioning, motivational devices. Scope and sequence of secondary mathematics topics. Criteria for text evaluation. Preview of student teaching. PREREQ: MAT 350. Usually offered in spring.

357 Teaching Mathematics to the Handicapped (3) Methods and materials associated with the presentation of mathematics to the handicapped. Emphasis on individualization involving thinking skills at the concrete level. Evaluative and interpretive techniques are included.

390 Seminar in Mathematics Education (3) Typical topics are: remedial programs, low achiever programs, materials for mathematics education, methodology in mathematics education, mathematics and the computer, theories of mathematics education, and analysis of research in mathematics education. PREREQ: MAT 351.

391 Seminar in Mathematics for Elementary Teachers (3) Topics selected for their relevance and value for the prospective elementary teacher. PREREQ: permission of department chairperson.

400 History of Mathematics for Elementary Teachers (3) History and development of elementary mathematics from primitive times to the discovery of the calculus. Problems of the period are considered. PREREQ: MAT 212, 233.

401 History of Mathematics (3) Development of mathematics from the Babylonian era to the 18th century. Some modern topics included. PREREQ: MAT 241.

405 Special Topics in Mathematics (3) Topics announced at the time of offering.

411-412 Algebra I-II (3) (3) Abstract algebra. Algebraic systems; groups; rings, integral domains, and fields. PREREQ: MAT 241. 411 must precede 412.

414 Theory of Numbers (3) Properties of the integers; primes, factorization, congruences, and quadratic reciprocity. PREREQ: MAT 242. Usually offered in spring.

421-422 Mathematical Statistics I-II (3) (3) Probability theory, discrete and continuous random variables, distributions, moment generating functions. Statistical sampling theory, joint and interval estimation, test of hypothesis, regression, and correlation. PREREQ: MAT 242, 421 must precede 422. 421 in spring; 422 in fall.

425 Numerical Analysis (3) Numerical methods for the approximate solution of applied problems. Interpolation theory, curve fitting, approximate integration and numerical solution of differential equations. PREREQ: CSC 101 or CSC 141 and MAT 261 (or MAT 242).

427 Introduction to Optimization Techniques (3) Nature of optimization problems: deterministic and stochastic, discrete and continuous. Computer methods of solution: systematic and random search: linear quadratic, dynamic programming, and others. PREREQ: CSC 101 (or CSC 141) and MAT 261 (or MAT 242).

431 Topics in Geometry (3) Announced at time of offering. PREREQ: MAT 231.

432 Topology (3) Elements of point set topology. Separation axioms. Connectedness, compactness, and metrizability. PREREQ: MAT 242. Usually offered in fall.

433 Differential Geometry (3) Classical differ-

ential geometry from a modern viewpoint. Curves and surfaces; shape operators; introduction to Reimann geometry. PREREQ: MAT 242.

441-442 Advanced Calculus I-II (3) (3) A rigorous treatment of the calculus of a single real variable. Topics in several real variables and an introduction to Lebesque integration. PREREQ: MAT 242. 441 must precede 442.

443-444 Applied Analysis I-II (3) (3) The techniques of analysis applied to problems in the physical sciences. Topics include: partial differential equations, orthogonal functions, complex integration, and conformal mapping. PREREQ: MAT 242. 443 must precede 444.

445 Complex Variables (3) Introduction to functions of a complex variable. Analytic functions, mappings, differentiation and integration, power series, and conformal mappings. PREREQ: MAT 242. Usually offered in spring.

490 Seminar in Mathematics (3) Topics in mathematics selected for their significance and student-instructor interest. Independent study and student reports, oral and written. PREREQ: senior standing and consent of department chairperson.

493 Mathematical Modeling (3) The idea of a mathematical model of a real situation. Techniques and rationales of model building. Examples from the life, physical, and social sciences. PREREQ: MAT 242, 343.

COMPUTER SCIENCE
MATHEMATICAL SCIENCES
Symbol: CSC

★ **101 Introduction to Computers** (3) Programming and use of the computer for the student's various needs. The student writes a number of programs to accomplish a variety of computing tasks, including a major programming project relative to his academic major. (For non-majors).

121 Computer Uses and Abuses (3) Introduction to the computer as a tool of society. Current and potential uses of the computer, and areas where its use or misuse could be detrimental to society if not properly controlled. (For non-majors).

★ **141 Introduction to Computer Science** (3) Introduction to the art and science of computing and its applications. Topics covered are: elementary data structures, structured programming techniques, algorithm development, graphic display, error analysis, and file manipulation. A final substantive programming project is required of each student. PREREQ: 2 years of high school algebra.

★ Approved Distributive Requirement Course.

142 Applied Software (4) Techniques of program design, documentation and implementation, such as top-down design, modularization, structured coding, structured walk-thru and programming teams. The COBOL language is used to acquaint the student with commercial computing requirements. PREREQ: CSC 141 (or equivalent).

200 Cooperative Operations (3) The student works in an organization's computer center as a junior computer operator to gain familiarity with day-to-day activities and the jargon of the computer industry. PREREQ: CSC 142, at least 30 clock hours in the college's computer center's operations section, and approval of the Computer Science Committee. Offered in summer.

201 Program Language Lab (1) Programming skills are developed in various languages (may vary from semester to semester). PREREQ: one programming language.

241 Algorithmic Languages (4) Analysis and comparison of various high level languages. Typical languages studied are PASCAL, FORTRAN, BASIC, COBOL, and APL. Characteristics such as binding, data structures, IO handling, recursion, and language extensibility are considered. PREREQ: CSC 142. (A working knowledge of APL is desirable). Offered in fall.

242 Computer Organization (4) Study of the architectures of various computer systems and their native language. Use of assembler languages, including macros and parameter passing. Development of more complex data structures. PREREQ: CSC 241. Offered in spring.

300 Cooperative Applications Programming (4) The student works in the applications programming section of an information systems group as a junior programmer to gain experience in programming and implementing small projects of use to the company. PREREQ: CSC 242 and approval of the Computer Science Committee.

321 Data Base Management Systems (3) Characteristics of generalized data management systems; survey of widely used systems; techniques for improving the interface between a manager and information he needs to make decisions through easy-to-use generalized reporting systems. PREREQ: CSC 242. Offered in fall.

325 Systems Design (4) The student designs and implements an information system. This project involves the complete system development cycle: analysis, design, programming with documentation, implementation, and follow up. PREREQ: CSC 321, approval by Computer Science Committee of a detailed project proposal. Offered as needed.

331 Operating Systems (3) Operating systems and their user characteristics. Maintenance of a complex operating system with emphasis on im-

portant trade-offs made in tuning the system. Core and file management, systems accounting, other user related services. PREREQ: CSC 242. Offered odd years in spring.

335 On-Line Computing (3) Characteristics of data communication equipment. Design implementation, modification of information systems in an on-line environment. File management systems and data structures appropriate to real-time computing with emphasis on back-up and recovery techniques. PREREQ: CSC 242. Offered in spring even years.

341 Compiler Construction (3) Translation, loading, execution of a higher level language. Syntax analysis of simple expressions and statements. Organization of a compiler; design and implementation of a simple compiler. PREREQ: CSC 242. Offered spring even years.

343 Formal Languages (3) A study of the various types of automata and their associated languages. This course is designed to give a student an understanding and appreciation of the production system for languages and their relationship to automata. PREREQ: CSC 242 (or equivalent).

350 Computers in Education (3) Technical knowledge and skills for successful use of the computer as a supportive tool of education in elementary and secondary school classes. Usually offered summers.

361 Simulation (3) Computer simulation utilizing logical, numerical, and Monte Carlo modeling to represent systems. Use of special languages to simulate actual systems. PREREQ: CSC 141 (or equivalent), MAT 261 (or MAT 242), MAT 221 (or equivalent.) Offered in fall.

371 Computer Graphics (3) Construction and manipulation of prototypes for graphical display purposes. PREREQ: CSC 242 (or equivalent) MAT 261 (or MAT 242). Offered in fall.

381 Artificial Intelligence (3) Thorough study and analysis of the LISP language in its application to non-numeric problems and symbol manipulations. Application to gaming, scene analysis and pattern recognition, linguistic analysis and semantic representation, image analysis and solution spaces, problem solving and attention control. Each student required to take one substantial problem and solve using the LISP language and the techniques of artificial intelligence. PREREQ: CSC 242 (or equivalent).

400 Cooperative Specialty (9) Working for an organization in his concentration area, the student applies his background to real problems. PREREQ: approval of Computer Science Committee.

490 Independent Project in Computer Science (1-5) The student designs and implements a software system. Project problems are drawn from local industry and college departments. A computer science faculty member supervises each project. PREREQ: consent of instructor. Offered as needed.

495 Topics in Computer Science (3) Announced at time of offering. PREREQ: consent of instructor. Offered as needed.

499 Independent Study in Computer Science (1-4) In conjunction with the instructor, the student selects study topics via literature search. PREREQ: consent of instructor. Offered as needed.

Music

PROFESSORS: Antonowich, Barrow, Carey, Cohen, Johns, Laudermilch, Merrell, Munger, Murray, Pennington, Pflieger, Schick, Schmidt, Singleton, Sprenkle, Stringer, Veleta, Wells, Wilkinson

ASSOCIATE PROFESSORS: Alt, Bedford, Belmain, Boerlin, Dorminy, Frenz, Friday, Gangemi, Klein, Markow, Nelson, Pandel, Pethes, Roper, Sheppard, Southall, Sullivan, Sweet, Vandever, Voois, Wagner, Whitten, Williams

ASSISTANT PROFESSORS: Ahramjian, Collins, Conaway, Fields, Guidetti, Hegvik, Lee, McVoy, Robilette, Vinquist (Part-time)

INSTRUCTORS: Dillard, Goebel (Part-time), Lucas, Lyons (Part-time), Markey (Part-time), McKenna (Part-time), Sanford (Part-time), Swartley

BACHELOR OF SCIENCE IN MUSIC EDUCATION

BACHELOR OF ARTS IN MUSIC

BACHELOR OF MUSIC

The School of Music offers three programs of study leading to undergraduate degrees:

(1) Bachelor of Science in Music Education: a balanced program of general, specialized, and professional courses leading to qualification for a Pennsylvania Instructional I Certificate to teach music in the elementary and secondary schools of Pennsylvania. Three teaching concentration programs—general, instrumental,and vocal-choral—are provided.

(2) Bachelor of Arts in Music: a program designed for the study of music within a liberal arts curriculum. One concentration area provides a broad coverage of music, while another provides a concentration in performance.

(3) Bachelor of Music: a balanced program of courses which are general, specialized, and professional for the performing musician; structured for students desiring a college degree and interested in such areas as professional performance, studio teaching, and church music.

The following are acceptable as "major" instruments: violin, viola, cello, bass, guitar (classical), trumpet, trombone, baritone, tuba, French horn, oboe, flute, Bb clarinet, saxophone, bassoon, harp, and percussion (provided the candidate demonstrates an acceptable competence in playing various percussion instruments).

TRANSFER STUDENTS—consult the paragraphs headed "Transfer Students" and "College Policies for Students Transferring from a Non-Accredited Institution" under Admission to West Chester.

SPECIAL CURRICULAR REQUIREMENTS: See "Handbook for Students in Music—Undergraduate Division"

MUSIC TESTS—BACHELOR OF SCIENCE IN MUSIC EDUCATION

(1) Each candidate must demonstrate skill in at least one performing medium in which he excels: piano, organ, voice, guitar, or a band or orchestra instrument. It is preferable, although not required, for pianists and vocalists to perform at least part of their audition from memory.
(2) All candidates are tested in voice and piano.
(3) A piano, organ, or voice major who has band or orchestra instrument experience is urged to demonstrate his ability on his instrument.

Note: Each candidate must bring music for the vocal, piano, and instrumental compositions he intends to perform, and should come prepared with a song that will demonstrate vocal range and quality.

MUSIC TESTS—BACHELOR OF ARTS IN MUSIC

Each candidate must demonstrate acceptable background in a major performing medium. Those planning to elect the concentration in performance must demonstrate an advanced level of accomplishment in an audition. Memorization is preferred for vocalists and pianists.

MUSIC TESTS—BACHELOR OF MUSIC

Each candidate must demonstrate an advanced level of proficiency in the major area of performance as evidenced by his ability to perform compositions representing a variety of musical periods and must show potential as a professional performer. Memorization is required for pianists and vocalists.

NOTE

Candidates for the B.A. and B.Mus. degrees will also take all of the tests required for admission to the B.S. program.

SCHOOL OF MUSIC DEGREE PROGRAMS

BACHELOR OF SCIENCE IN MUSIC EDUCATION

Candidates choose one of three teaching concentration programs—general, instrumental, or vocal-choral. They must satisfactorily complete 128 semester hours, distributed among the following areas:

1. General Requirements — 39 s.h.
   - I. Basic Skills (11 s.h.): as per page 59
   - II. Distributive Requirements (18 s.h.)*
   - A. Science (6 s.h.): one approved course in two of the following areas:
     Biology, Chemistry, Computer Science, Earth Science, Physics
   - B. Behavioral and Social Sciences (6 s.h.):
     One approved course in each group:
     1. Anthropology, Psychology, Sociology
     2. Economics, Geography, Government
   - C. Humanities (6 s.h.):
     One approved course in two of the following areas:
     Literature, History, Philosophy
   - III. The Arts (3 s.h.): as per page 59
   - IV. Free Electives (6 s.h.): as per page 59
   - V. Human Relations: SOC 135
2. Professional Education Requirements* — 26-29 s.h.
   EDF 100, MUS 331, MUS 332, methods course or courses in the teaching concentration (2-5 s.h.), EDP 250, MUS 431/432
3. Specialized Preparation — 61-64 s.h.
   - A. Theory and Music History (29 s.h.)
     Theory I, II, III, IV
     Aural Activities I, II, III, IV
     Music in Western Civilization I, II
     (May be applied to General Requirements)
     Acoustics of Music
   - B. Applied Music (26½-36½ s.h.)
     Conducting (4 s.h.)
     Major Performing Area (Individual Lessons) (8-9 s.h.)
     Minor Performing Area (Individual Lessons) (4-6 s.h.)

*These requirements are provisional upon final approval or subsequent revision by the College in the Spring of 1981.

Minor Performing Area (Class Lessons) (3½-8½ s.h.)
Musical Organizations (6-11 s.h.)
C. Electives (1½-11½)
Chosen from courses listed by each department in the school.

BACHELOR OF ARTS (General Concentration)

1. General Requirements — 72 s.h.
   I. Basic Skills (11 s.h.): as per page 59
   II. Distributive Requirements (33 s.h.)
   A. Science (9 s.h.): as per page 59
   B. Behavioral and Social Sciences (9 s.h.): as per page 59
   C. Humanities (15 s.h.)
   Five courses chosen from literature, history and philosophy as follows:
   LIT 160 and 161 or LIT 260 and 261
   HIS 101 and 102
   PHI 101 or 180
   III. The Arts (6 s.h.) Any course in two of the following areas:
   Art, Cinematography, Dance, Music, Photography, Theater
   IV. Free Electives (9 s.h.): as per page 59
   V. Foreign Language (12 s.h.)
   Candidates are required to complete the second half of the intermediate year of a foreign language. French or German are strongly recommended.
   VI. Human Relations: SOC 135
2. Music Courses—The Major — 57 s.h.
   A. Theory (23 s.h.)
   Theory I, II, III, IV
   Aural Activities I, II, III, IV
   Elective (3 s.h.)
   B. Music History and Literature (18 s.h.)
   Music in Western Civilization I, II
   (May be applied to General Requirements)
   Electives (12 s.h.)
   C. Performance Area (10 s.h.)
   Musical Organizations (2 s.h.)
   Applied Music (8 s.h.)
   D. Music Electives (6 s.h.)

BACHELOR OF ARTS (Concentration in Performance)

1. General Requirements (see page 58) — 51 s.h.
2. Foreign Language (through Intermediate II) — 6 s.h.
3. Music Courses—The Major — 72 s.h.
   A. Theory (29 s.h.)
   Theory I, II, III, IV
   Aural Activities I, II, III, IV
   Counterpoint I, Acoustics of Music
   B. Music History and Literature (9 s.h.)
   Music in Western Civilization I, II
   (May be applied to General Requirements)
   Music History elective (3 s.h.)
   C. Area of Concentration Requirements (27 s.h.)
   Major Performance Area, including recital (12 s.h.)
   Secondary Performance Area (2 s.h.)
   Conducting (2 s.h.)

Musical Organizations (2 s.h.)
Concentration electives (9 s.h.)
D. Music Electives (10 s.h.)

BACHELOR OF MUSIC (Concentration in Theory/Music History)

1. General Requirements 44 s.h.
   I. Basic Skills (11 s.h.): as per page 59
   II. Distributive Requirements (18 s.h.)
   A. Science (6 s.h.): one approved course in two of the following areas: Biology, Chemistry, Computer Science, Earth Science, Physics
   B. Behavioral and Social Sciences (6 s.h.)
   One approved course in each group:
   1. Anthropology, Psychology, Sociology
   2. Economics, Geography, Government
   C. Humanities (6 s.h.):
   One approved course in two of the following areas:
   Literature, History, Philosophy
   III. The Arts (3 s.h.): as per page 59
   IV. Free Electives (6 s.h.): as per page 59
   V. Foreign Language, through Intermediate II (6 s.h.)
2. Music Courses—The Major 84 s.h.
   A. Theory (38 s.h.)
   Theory I, II, III, IV
   Aural Activities I, II, III, IV
   Counterpoint I, II
   Musical Form, Orchestration, Composition I, Acoustics of Music
   B. Music History (21 s.h.)
   Music in Western Civilization I, II
   (May be applied to General Requirements)
   Research Techniques (3 s.h.)
   Music History electives (12 s.h.)
   C. Applied Music (16 s.h.)
   Piano (8 s.h.)
   Secondary Performance Area (2 s.h.)
   Conducting (2 s.h.)
   Musical Organizations (4 s.h.)
   D. Music Electives (9 s.h.)

BACHELOR OF MUSIC (Concentration in Performance)

1. General Requirements 44-47 s.h.
   I. Basic Skills (11 s.h.): as per page 59
   II. Distributive Requirements (18 s.h.)
   A. Science (6 s.h.): one approved course in two of the following areas: Biology, Chemistry, Computer Science, Earth Science, Physics
   B. Behavioral and Social Sciences (6 s.h.):
   One approved course in each group:
   1. Anthropology, Psychology, Sociology
   2. Economics, Geography, Government
   C. Humanities (6 s.h.)
   One approved course in two of the following areas:
   Literature, History, Philosophy
   III. The Arts (3 s.h.): as per page 59
   IV. Free Electives (6 s.h.): as per page 59

V. Foreign Language (6-9 s.h.)
(Need not be at Intermediate level)

2. Music Courses—The Major 81-84 s.h.
   A. Applied Music (Performance): (38-43 s.h.)
      Major Performance Area, including recital (16 s.h.)
      Secondary Performance Area (4 s.h.)
      Musical Organizations (2-5 s.h.)
      Conducting (2-4 s.h.)
      Master Class and/or Ensemble (4 s.h.)
      Literature, applied music (6-15 s.h.)
   B. Theory and Music History (35-38 s.h.)
      Theory I, II, III, IV
      Aural Activities I, II, III, IV
      Music in Western Civilization I, II
      (May be applied to General Requirements)
      Counterpoint, Orchestration, Acoustics (3-9 s.h.)
      History/Literature (0-6 s.h.)
   C. Supportive music electives (5-10 s.h.)

COURSE DESCRIPTIONS
DEPARTMENT OF THEORY AND COMPOSITION
Symbol: MUS

Harry Wilkinson, Chairperson; *Dillard, Gangemi, McKenna, McVoy, Munger, Nelson, Sanford, Sullivan, and Staff.*

112 Theory of Music I (3) Fundamentals of music theory, music writing, keyboard harmony. Elements of musical form; binary and ternary forms. Tonic, dominant, subdominant and leading tone triads in root position and inversions. Analysis and creative activity.

113 Theory of Music II (3) Supertonic, submediant and mediant triads and their inversions; secondary dominants; Modulation; Compound ternary, rondo and variation forms. Analysis and creative activity. PREREQ: Mus 112.

114 Aural Activities I (2) Development of basic hearing skills, chiefly through sight singing and dictation activities based upon the subject matter of MUS 112.

115 Aural Activities II (2) Continued development of basic hearing skills. PREREQ: MUS 114.

212 Theory of Music III (3) Diatonic and chromatic seventh chords and their inversions. Modulation. Invention and fugue, sonata-allegro forms. Analysis and creative activity. PREREQ: MUS 113

213 Theory of Music IV (3) Harmonic and contrapuntal techniques of the 20th century. Form in contemporary music. Analysis and creative activity. PREREQ: MUS 212.

214 Aural Activities III (2) Material of advanced difficulty involving chromatic alteration, foreign modulation, and intricate rhythms. PREREQ: MUS 115.

215 Aural Activities IV (2) Continuation of MUS 21 and activities involving nontonal music. PREREQ: MUS 214.

312 Counterpoint I (3) The contrapuntal techniques of tonal music. Choral prelude and invention. PREREQ: MUS 212.

313 Counterpoint II (3) Advanced contrapuntal forms including canon and fugue. PREREQ: MUS 312.

314 Musical Form (3) The standard forms of tonal music based on the treatises of Goetschius and Salzer. PREREQ: MUS 212.

315 Orchestration (3) The orchestra; use of instruments individually and in combination. PREREQ: MUS 212.

316 Performance Practices in Contemporary Music (1) Technical problems of understanding new notation (e.g. graphic, proportional, multiphonics, microtones, metric modulation, asymetrical rhythm groupings, prose scores, etc.) and facility in performing scores which include these techniques. PREREQ: MUS 213.

412 Composition I (3) Creative writing in the forms, styles, and media best suited to the capabilities and needs of the student. PREREQ: MUS 212.

413 Composition II (3) Further application of MUS 412, stressing contemporary techniques. PREREQ: MUS 412.

414 Acoustics of Music (3) The study of sound; its production, transmission, and reception. Musical instruments, the acoustics of rooms, and the physical basis of scales.

415 Serialism and Atonality (3) Compositional procedures and theoretical concepts in atonal and serial works of Schoenberg, Berg, Webern,

Bartok, Stravinsky, and more recent composers. PREREQ: MUS 213.

416 Jazz Practices (2-3) Jazz history, writing, and performance. Survey of basic jazz literature; fundamental techniques in arranging and improvising. PREREQ: MUS 213 or equivalent.

417 Electronic Music (3) Materials and techniques of electronic music and their use in composition. Laboratory experience in the composition of electronic music. PREREQ: MUS 412 or equivalent. Subject to college approval.

COURSE DESCRIPTIONS
DEPARTMENT OF MUSIC HISTORY AND LITERATURE
Symbol: MUS

Liselotte M. Schmidt, Chairperson; *Johns. Murray. Pflieger. Vinquist. Wells and Staff.*

121 Fine Arts (Music) (3) Designed for the general requirements. An introductory course in the history and appreciation of music from the Middle Ages through the contemporary period. Not open to music majors or elementary education student with a concentration in music.

Note that other courses are available to the non-music major for general requirements. Particularly suitable are MUS 122. 123. 125. 126. 127. 128. 421. Additional courses may also be taken for the same purpose. with consent of department chairperson.

122 Music History I (3) The history and appreciation of music from the earliest times through the Baroque period. Musical forms, aesthetic concepts, and practices. Analysis and listening experience.

123 Music History II (3) The history and appreciation of music from the classical through the contemporary period. Continuation of MUS 122.

125 Perspectives in Jazz (3) For non-music majors. Guided listening to improve understanding and enjoyment of jazz with emphasis upon jazz heritages, chronological development, and sociological considerations, culminating in an analysis of the eclectic styles of the 1960's and 70's.

126 Folk and Traditional Music of the Western World (3) Introductory survey of music and musical styles of folk and traditional music in the Western world. Analysis of styles, forms, aesthetic and cultural concepts, and practices, surveyed as they relate to folk music and the mainstream of art music.

127 Special Subjects Seminar (3) Significant topics in music history and literature presented by faculty members and/or visiting lecturers. Designed for the non-music major who has had little or no previous musical experience. Fulfills the general requirements.

128 Music in American Life (3) Chronological study of music in American life and culture, placing emphasis on music as a gauge of cultural history; no previous musical training necessary; meets the general requirements. For non-music majors.

221 Music in Western Civilization I (3) A history of music from earliest known times through the Baroque Period — to 1750. Analysis of styles, forms, aesthetic concepts, and practices. PREREQ for music majors: MUS 113. For non-music majors: consent of instructor.

222 Music in Western Civilization II (3) A history of music from the Classical through Contemporary Period. Analysis of styles, forms, aesthetic concepts, and practices. PREREQ for music majors: MUS 113. For non-music majors: consent of instructor.

320 Folk and Non-Western Music (3) A study of the music of non-Western folk music, along with an introduction to ethnomusicology and its research techniques. PREREQ: MUS 221-222.

321 African and Afro-American Music (3) African music in its social context. African-influenced music of the Western hemisphere including spirituals, work songs, field hollers, ragtime, blues, jazz, gospel songs, and soul music. Some "art" music by black composers. PREREQ: an introductory course in music or permission of instructor.

322 American Music (3) Survey of the development of music and musical style from 1620 to the present. Analysis of styles, forms, aesthetic concepts, and practices. PREREQ: MUS 221 and 222, or permission of the instructor.

323 Aesthetics and Music Criticism (3) The nature of aesthetic experience and various problems in the philosophy of art. Principles of criticism related to music and its performance. For music majors, or non-music majors with permission of instructor.

340 Medieval Music (3) Development of plainsong and secular monody and beginnings of early history of polyphony through the 14th century. Consideration of contemporary trends in the visual arts, history, and literature. PREREQ: MUS 221 and 222, or permission of instructor.

341 Renaissance Music (3) Sacred and secular music in the age of Dufay; changing forms and styles through the music of Franco-Flemish groups; the frottola and related forms; Palestrina and his contemporaries, with a brief consideration of contemporary trends in the visual arts, history, and literature. PREREQ: MUS 221 and 222, or permission of instructor.

342 Baroque Music (3) Styles and forms of

Baroque repertoire; contributions of the major Baroque composers; role of music and musicians in the society of the period. PREREQ: MUS 221 and 222, or permission of instructor.

343 Late 18th Century Music (3) Changing styles and forms in: the sons of J. S. Bach; the Viennese pre-classicists; the Mannheim school; opera; Joseph and Michael Haydn, Mozart, and their contemporaries; the early works of Beethoven. PREREQ: MUS 221 and 222, or permission of instructor.

344 Music of 19th-Century Romanticism (3) Historical developments during the Romantic Period (circa 1800-1900). Analysis of changes and trends; comparative aspects of new forms. PREREQ: MUS 221 and 222, or permission of instructor.

345 Contemporary Styles (3) Trends in modern music from about 1900 to the present. Analysis and listening experience. PREREQ: MUS 221 and 222, or permission of instructor.

346 Bach and His Works (3) The life of J. S. Bach; works for organ, keyboard, and other instruments; cantatas and larger choral works. PREREQ: MUS 221 and 222, or permission of instructor.

348 Problems in Performance Practice (3) Historical and analytical consideration of special problems in the accurate realization and performance of music from the Middle Ages to the present. PREREQ: MUS 221 and 222, or permission of instructor.

349 Introduction to Research in Music History (3) Basic bibliographical material, library resources, and research techniques applicable to undergraduate study in music history and literature. Required of B.A. majors in music history and theory. Open to others with permission of instructor and department chairperson.

424 Development of the Opera (3) A basic course in the origin and development of the opera and its dissemination throughout the Western World. PREREQ: MUS 221 and 222, or permission of instructor.

425 Literature of Orchestra Music (3) A study of representative orchestra works; symphonies, concerti, suites, overtures, and others, from the Baroque Period to the present. Appreciation and analysis. PREREQ: MUS 221 and 222, or permission of instructor.

428 Chamber Music Literature (3) Analysis of style and form of chamber music repertoire from the Baroque through Modern Period. Emphasis on appreciation as well as structure. PREREQ: MUS 221 and 222, or permission of instructor.

429 Special Subjects Seminar (3) Significant topics in music history and literature presented by faculty members and or visiting lecturers. Designed to meet the specific needs of undergraduate music majors.

COURSE DESCRIPTIONS
DEPARTMENT OF MUSIC EDUCATION
Symbol: MUS

Margaretta A. Carey, Chairperson; *Antonowich, Belmain, Collins, Markey, Merrell, Singleton, Stringer, and Staff.*

030 Fundamentals of Music (no credit) For elementary education students who do not meet minimum requirements on a music fundamentals test. For these students the course is a prerequisite for MUS 231. Intervals, scales, key signatures, and other fundamentals of musical notation are stressed.

231 Music for the Classroom Teacher (3) Designed to equip the elementary classroom teacher to participate in the music program. Emphasis on teaching procedures and materials. PREREQ: passing grade on a music fundamentals test.

232 Music in Early Childhood (3) Designed to equip the teacher of early childhood to develop specific concepts utilizing singing, rhythmic, and melodic activities. Emphasis on listening and movement to music. Fall semester only.

331 The Music Curriculum, K-6; Methods and Materials (3) The study of music and the learning process at the elementary level; the listening program, pedagogy for the elementary music program, and materials.

332 The Music Curriculum, 7-12; Methods and Materials (3) The study of music and the learning process at the secondary level; the listening program, the middle and junior high school general music programs, ethnomusic, programs and performances, basics of administration, related arts, the music major program, and evaluative techniques.

333 Instrumental Methods (3) Fundamentals underlying the development in instrumental programs in the public schools. Emphasis upon program organization and administration, teaching procedures, and materials.

Note that MUS 331, MUS 332, and MUS 333 are scheduled concurrently, normally in the junior year, in order to permit regular and ample opportunity for observation in area public schools. PREREQ: Three music observations in the public schools at the elementary, middle/junior, and senior high school levels before the end of the sophomore year.

334 Teaching Music Listening at the Elementary Level (3) The teaching of the elements of music, musical concepts, and the development of aesthetic sensitivity through listening.

335 Choral Materials and Practices (2) Designed to acquaint the student with the vast amount of choral music suitable for school use. Program building and rehearsal techniques are demonstrated.

337 Instrumental Techniques and Materials (2) For juniors and seniors who desire to specialize in instrumental music. Considers rehearsal procedures, effective materials, minor repairs of instruments, competitions and festivals, and marching band procedures. PREREQ: MUS 333.

430 Related Arts Pedagogy in Music Education (3) Historical background of the related arts movement. Principles of related arts teaching related to musical elements, forms, and styles, with appropriate teaching techniques at specified grade levels. Materials for school music programs: basal music series, other texts and literature, resources in related arts. Demonstration lessons and unit planning.

431 Student Teaching, Practicum, and Direction of Student Activities/Elementary (6) Observation and participation in teaching vocal and instrumental music at the elementary level. Undertaken in conjunction with qualified cooperative teachers. Professional conferences and visitations are an integral part of the experience.

432 Student Teaching/Secondary (6) Observation and teaching general, vocal, and/or instrumental music at the secondary level. Professional conferences and visitations are an integral part of the experience. PREREQ. for 431/432: 96 semester hours including the required Music Theory, Music History, and all professional education courses.

433 Elementary Orff Techniques (3) Basic Orff melodic and rhythmic techniques for the elementary classroom. Emphasis on developing concepts for individual teaching situations. PREREQ: MUS 331, 332.

435 Elementary Kodaly Techniques (3) Basic Kodaly techniques. Adaptation of teaching procedures for elementary school: rhythm; melody; movement; improvisation.

436 Music in the Middle School (3) Review and critical analysis of music education in the middle school: philosophies; curriculum; practices; personnel.

437 Music in Special Education (3) Characteristics of special pupils; adaptation of teaching techniques; materials; curriculum.

DEPARTMENT OF KEYBOARD MUSIC

Richard K. Veleta, Chairperson; *Bedford, Fields, Lee, Lucas, Pandel, Pennington, Pethes, Robilette, Schick, Sprenkle, Voois, Whitten, Wilkinson and Staff.*

NUMBERING SYSTEM

Private and class lessons given by the Department of Keyboard Music are shown by the following numbers, together with the appropriate prefix:

PIA—Piano ORG—Organ

Course Number		s.h.
191-192	Class instruction in minor performance area	½
101-402	Private instruction in minor performance area	1
105-106	Private instruction in minor performance area, Elementary Education students with a concentration in music	1
107-109	Private instruction in major performance area, Elementary Education students with a concentration in music	1
111-412	Private instruction in major performance area, Music Education program	1
413	Elective credit for senior recital, accompanying, or other participation in concerts or recitals, or extra study of literature. Available to Music Education seniors only during the non-student-teaching semester by permission of the department	1
121-422	Private instruction for Music Education students with Advanced Standing	1
131-432	Private instruction in major performance area, B.A. program	1 or 2
141-442	Private instruction in major performance area, B.Mus. Program	2

MAK 311-314 Master Class (Keyboard) (1) For keyboard majors. Experience in performing memorized literature. Class members also play two-piano compositions and ensemble music for piano and other instruments. Keyboard trios, quartets, and quintets are analyzed and performed.

PIA 310 Accompanying (2) A laboratory course in the principles of playing accompaniments to art songs, concertos, and Baroque recitatives; and in ways to realize continuos and make orchestral reductions at the piano.

PIA 338 Piano Pedagogy (3) Designed as preparation for studio teaching. Emphasis is on materials and varied approaches for the early stages of instruction.

PIA 403 Harpsichord and Continuo Realization (1) An introduction to harpsichord playing and the principles of continuo accompaniment as a Baroque style.

PIA 404 Transposition and Score Reading (2) Emphasizing the needs of the keyboard accompanist, techniques include clef reading, harmonic analysis, interval transposition, solfege steps, and enharmonic changes.

PIA 405 Accompanying—Vocal (3) Performance of the vocal accompanying literature from all periods; performance and reading sessions in class.

PIA 406 Accompanying—Instrumental (3) Performance of the instrumental accompanying literature from all periods; emphasis on the sonata literature; performance and reading sessions in class.

PIA 425 Keyboard Literature I (3) A survey of literature for keyboard instruments from the Baroque Period through the late Classical Period. The various styles in solo and ensemble literature are illustrated by recordings and performance by keyboard majors.

PIA 426 Keyboard Literature II (3) A continuation of MUS 224. Performance by keyboard majors and recordings. Literature from the Romantic through the Impressionist Period is studied.

PIA 427 The Concerto (3) A chronological presentation of the development of the piano concerto emphasizing performance practices and problems. PREREQ: Theory IV.

DEPARTMENT OF VOCAL AND CHORAL MUSIC

Roy D. Sweet, Chairperson; *Alt, Conaway, Dorminy, Frenz, Friday, Markow, Sheppard, Vandever, Wagner, Williams, and Staff.*

NUMBERING SYSTEM

Private and class lessons given by the Department of Vocal and Choral Music and shown by the following numbers, together with this prefix:

VOI—Voice

Course Number		s.h.
191-192	Class instruction in minor performance area	½
101-402	Private instruction in minor performance area	1
105-106	Private instruction in minor performance area, Elementary Education students with a concentration in music	1
107-109	Private instruction in major performance area, Elementary Education students with a concentration in music	1
111-412	Private instruction in major performance area, Music Education program	1
413	Elective credit for senior recital, accompanying, or other participation in concerts or recitals, or extra study of literature. Available to Music Education seniors only during the non-student-teaching semester by permission of the department.	1
121-422	Private instruction for Music Education students with Advanced Standing	1
131-432	Private instruction in major performance area, B.A. program	1 or 2
141-442	Private instruction in major performance area, B.Mus. program	2

DIC 111 English-Italian Diction (3) English, Italian, and Latin diction for singers. Use of phonetics with application to singing of selected songs.

DIC 112 French-German Diction (3) French and German diction for singers. Use of phonetics with application to singing of selected songs.

CHO 111 College Choir (½) A freshman chorus presenting a wide selection of choral music for mixed chorus. Music of the high school level as well as more advanced litterature is presented. Open to students in other curricula through audition.

MEC 111 Men's Chorus (½) A sophomore chorus presenting the choral literature for male voices. Open to men in other curricula.

WOC 111 Women's Chorus (½) A sophomore chorus presenting the choral literature for female voices.

MAS 111/311 Masterworks Chorus (½-1) A junior-senior chorus presenting oratorios, masses, and the more difficult mixed chorus literature. Open to students in other curricula through audition.

CHC 111 Chamber Choir (½) Performance of music of the Renaissance and Baroque Period. The performing is selected by audition.

MCL 111 Madrigal Class (1) A survey of madrigal literature through records, tapes, and class performance with emphasis on materials suitable for use in secondary schools. PREREQ: MUS 221 or permission of the instructor.

OPC 111 Opera Chorus (½) An elective course devoted to the training of a choral group which participates in opera or operetta productions. May not be used to satisfy choral credits. Membership by audition.

CCH 111/311 Concert Choir (½-1) Devoted to acquiring a fine technique in choral singing through the preparation of programs for performance. Membership by audition.

WGC 111 Women's Glee Club (½) An opportunity for non-music students to learn the choral literature for women's chorus. Membership by audition.

VOC 227 Literature of the Musical Theater (3) The literature of the musical theater from Singspiel to Broadway Musical. Changes in style are observed and analyzed.

CCO 311 Choral Conducting I (2) A practical application of conducting and vocal techniques in choral direction through practice in conducting a choral group.

CCO 312 Choral Conducting II (2) Continued development of conducting techniques with stress on conducting of polyphonic choral music and on the musical styles of the various choral periods. PREREQ: CCO 211.

MAV 311 Master Class (Voice) Baroque Period (1)

MAV 312 Master Class (Voice) German Lied (1)

MAV 313 Master Class (Voice) French Melodie (1)

MAV 314 Master Class (Voice) 20th Century Art Song (1)

VOC 329 Art Song (3) Origins and development of the art song.

OPW 421 Opera Workshop I (2) A study of the arts and crafts required in a musical production; coaching, set designing and construction, stage movement, and costuming.

OPW 422 Opera Workshop II (2) Major roles in short productions and minor roles in extended productions. By audition.

OPW 423 Opera Workshop III (2) Continuation of OPW 422. By audition.

OPW 424 Musico-Dramatic Production I (3) Major roles and/or major responsibilities in extended productions. By audition.

OPW 425 Musico-Dramatic Production II (3) Continuation of OPW 424. By audition.

VOC 426 Choral Repertoire (3) The development and performance style of the choral repertoire.

VOC 429 Special Subjects Seminar (3) Significant topics presented by faculty members and/or visiting lecturers. Designed to meet the specific needs of undergraduate music majors.

DEPARTMENT OF INSTRUMENTAL MUSIC

Edward A. Barrow, Chairperson; *Ahramjian, Boerlin, Cohen, Goebel, Guidetti, Hegvik, Klein, Laudermilch, Lyons, Roper, Southall, Swartley, and Staff.*

NUMBERING SYSTEM

Private and class lessons given to the Department of Instrumental Music are shown by the following numbers, together with the appropriate prefix:

VLN — Violin	ENH — English Horn	TPT — Trumpet
VLA — Viola	CLT — Clarinet	TRB — Trombone
VCL — Cello	SAX — Saxophone	BAR — Baritone
BAS — Bass	BSN — Bassoon	TBA — Tuba
FLU — Flute	HRP — Harp	PER — Percussion
OBO — Oboe	FRH — French Horn	GTR — Guitar

Course Number		s.h.
191-192	Class instruction for Music Education majors in the playing and teaching of the above instruments (Except VLN 191-192: 1 credit each)	½
101-402	Private instruction in minor performance area	1
105-106	Private instruction in minor performance area, Elementary Education students with a concentration in music	1
107-109	Private instruction in major performance area, Elementary Education students with a concentration in music	1
111-412	Private instruction in major performance area, Music Education program	1
413	Elective credit for senior recital, accompanying, or other extra participation in concerts or recitals, or extra study of literature. Available to Music Education seniors only during the non-student-teaching semester by permission of the department.	1
121-422	Private Instruction for Music Education students with advanced standing	1
131-432	Private instruction in major performance area, B.A. program	1 or 2
141-442	Private instruction in major performance area, B.Mus. Program	2

BRC 191 Brass Class (½) Class instruction in French horn, trombone, and tuba.

DRC 191 Double-reed Class (½) Class lessons in the playing and teaching of the oboe and bassoon on an elementary level for music education majors.

WWC 191 Woodwind Class (½) Class instruction in flute, oboe, and bassoon.

SEN 111 String Ensemble (½) Principles of ensemble playing through the performance of various types of chamber music.

WEN 111 Woodwind Ensemble (½) Principles of ensemble playing through the performance of various types of chamber music.

BEN 111 Brass Ensemble (½) Principles of ensemble playing through the performance of various types of chamber music.

PEN 111 Percussion Ensemble (½) Principles of ensemble playing through the performance of compositions limited to instruments of the percussion family.

ELO 111 Elementary Orchestra (½) Music for the beginning orchestra through performance. Emphasis on beginners' problems, organization, and techniques of string performance.

SYO 111/311 Symphony Orchestra (1) Emphasis on performance of a wide variety of orchestral literature for concerts, accompanying student soloists, opera, and oratorio.

OST 111 Orchestral String Techniques (½) Additional exposure to string orchestra literature and study of idiomatic string problems within regular orchestra parts.

ELB 111 Elementary Band (½) Music for the beginning band through performance. Emphasis on beginners' problems, organization, and techniques of wind and percussion playing.

CBA 111/311 Concert Band (½-1) Performance of the band literature suitable for junior high and senior high levels.

MBA 111/311 Marching Band (½-1) Program building, balance, and rehearsal techniques are stressed. Members participate in marching band activities. The Marching Band performs precision and theme drills at football games and plays for community and college functions.

SBA 111/311 Symphonic Band (½-1) The Symphonic Band emphasizes performance of a variety of band literature: standard repertoire, recently published compositions, and selections from festival lists.

WIN 111/311 Wind Ensemble (½-1) A band of 50 or 60 members composed of outstanding campus wind instrumentalists and percussionists. The ensemble performs difficult music selected mainly from contemporary works.

ICO 311 Instrumental Conducting I (2) Development of conducting skills and techniques,

score reading, and terminology. Works from the late 18th century are studied and conducted.

ICO 312 **Instrumental Conducting III** (2) Continued development of conducting skills and score reading of more advanced music literature. Works from the Romantic and Contemporary Periods are studied and conducted. PREREQ: CCO 211 or ICO 311.

MAS 311-314 **Master Class (Strings)** (1) Standard repertoire for combinations of string instruments, including trios, quartets, quintets, and other groups involving piano, organ, and other instruments.

MAW 311-314 **Master Class (Woodwinds)** (1) Repertoire from the Baroque Period to the present performed by ensembles of woodwind instruments. Solos are performed and discussed.

MAB 311-314 **Master Class (Brasses)** (1) Repertoire for brass solo, homogeneous ensemble, and mixed ensemble is performed and discussed.

MAP 311-314 **Master Class (Percussion)** (1) Repertoire for solo and ensemble music for percussion is performed and discussed.

INS 351 **Special Subjects Seminar** (1/2/3) Significant topics in the area of instrumental music presented by faculty members and/or visiting lecturers. Designed to meet the specific needs of undergraduate instrumentalists.

INS 352 **String Literature** (3) A survey of literature for string instruments from the pre-Baroque through the Classical Period. Study of style, form, and analysis; performance. Students, performing on their major instruments, and pertinent recordings provide illustrative literature. For music majors, or non-music majors with permission of instructor.

INS 353 **Woodwind Literature** (3) A survey of literature for flute, oboe, clarinet, and bassoon from the Baroque and Classical Periods. Recordings and performance by woodwind majors. For music majors, or non-music majors with permission of instructor.

INS 354 **Brass Literature** (3) The nature and development of brass instruments, observed in the solo, ensemble, and orchestral literature of the 16th, 17th, and 18th centuries. For music majors, or non-music majors with permission of instructor.

INS 355 **Marching Band Techniques** (1) A survey of the function of the total marching band and of each component within that band. Students are required to prepare a "marching band show" from musical selection to the charting of the final drills and designs.

Nursing

Malinda Murray, *Chairperson*

ASSOCIATE PROFESSORS: Murray, Wagoner.

ASSISTANT PROFESSORS: Devlin-Kelly, Harrison, Kline, Matz, Sell, Slaninka, Swope.

INSTRUCTORS: Fickner, Garrett, Rice.

The Department of Nursing is accredited by the National League for Nursing and approved by the State Board of Nurse Examiners, Commonwealth of Pennsylvania.

BACHELOR OF SCIENCE IN NURSING

The Bachelor of Science degree program in nursing is offered by the Department of Nursing, which is an integral part of the School of Health Sciences. The family-centered program is based upon the concept that man in totality is a bio-psychosocial being with basic health needs. The Department of Nursing believes that quality health care is a basic right of all people and that man's health care needs can more adequately be met through the preparation of the professional nurse who completes courses in the social and natural sciences, humanities, and the nursing major.

Characteristics of the graduate include: 1) an awareness and sense of responsibility for contemporary social issues; 2) concern for improvement of health care within society through professional citizen activities at various adaptational levels and development stages in a variety of settings; 3) competency in utilizing the nursing process to assist clients; 4) collaboration, coordination and consultation as a colleague with-

in the interdisciplinary health team; 5) belief in learning as a life-long process; 6) utilization of the scientific method to make decisions based upon predictable and unpredictable results in providing health care; 7) participation in the change process by collection of data applying to nursing theories and practice.

SPECIAL REQUIREMENTS

Nursing candidates are admitted once a year, in September.
Nursing students are required to supply their own transportation to clinical facilities.

Insurance Requirements. Students are required to carry liability insurance during the junior and senior year at a yearly cost of approximately $15.

Uniforms. Students must purchase uniforms costing approximately $100 at the end of their sophomore year.

HEALTH REQUIREMENTS

Nursing candidates must meet the general health requirements of all students at West Chester State College for the freshmen and sophomore years. Candidates must meet the following health requirements the summer prior to the junior and senior years: Inoculations against diphtheria, typhoid, tetanus, measles, and poliomyelitis (a series of four); a complete physical examination which must include a complete blood count, blood serology, TB skin test, urinalysis, dental and eye examinations, and any other diagnostic tests deemed necessary.

POLICY—ACADEMIC PROMOTION REGULATIONS (STUDENT)

Incompletes, Failures, and D Grades

All nursing students who have a grade of incomplete, D, or F in required courses during the freshman and sophomore level must repeat these courses and achieve a satisfactory grade (C or above) before entering the junior level nursing major courses.

A student must achieve a grade of C or better in the nursing major in the junior year for promotion to the senior year and achieve at least a C in the senior year for graduation.

If a student must repeat a nursing course, a grade of C or better in both the theory and laboratory (clinical practicum) components of the course must be achieved. Nonachievement of at least a C in such cases is considered grounds for dismissal from the nursing major.

Core Requirements*

PSY 100, PSY 210, ENG 121, SOC 200, BIO 100, CHE 103-104, CHL 103-104, BIO 209-309, BIO 214, CHE 230, PSY 375, BIO 307, CHE 404, SOC 240, and MAT 121.

* Some of these courses may be used to satisfy distributive requirements required by the College.

Nursing Concentration Requirements

NSG 212, NSG 311-312, NSL 311-312, NSG 411-412, NSL 411-412. A total of 128 credits are required for graduation.

INTERNAL TRANSFER POLICY

Purpose: To delineate procedures through which students presently enrolled at West Chester State College may transfer into the nursing curriculum.

Procedure: Students requesting an internal transfer should register with the department chairperson, obtain a copy of the requirements of the nursing curriculum, and bring a copy of academic record at the end of each semester to the Nursing Office to become a part of the pre-transfer record.

Policy:
1. Internal transfers will be limited annually to the number that the department can accommodate in a sound educational experience. This number will be determined by such factors as: attrition of nursing students in the program, number of faculty available for clinical supervision and number of clinical assignments available to the students.
2. From among the pool of qualified applicants the department will select that number as determined by (1) above from those best qualified academically

based on their science grades (C or above) and overall GPA (2.00 or above). Both these values will be given equal weight in evaluating the student.

3. Transfer applications will be accepted one week after the end of the spring semester of the year the applicant will have completed satisfactorily (C or above) all requirements (freshman and sophomore) for the nursing curriculum. Notification of transfer into the nursing major will be given by July 1 of the same year.

COURSE DESCRIPTIONS
NURSING
Symbol: NSG

109 Health Issues of Women (3) (Offered conjointly with Department of Health, as NSG/HEA 109). This course encompasses the needs and concerns of women as consumers in our present health care system. It examines various biological, psychological, and social topics related to women's health care, including medical abuses, sexuality, sex roles, and women's health in the workplace. This course is an enrichment to liberal education, encouraging inquiry into previously neglected areas of women and health. It is offered in the Women's Studies Program, and is open to all college students, regardless of major, as a free elective.

110 Transcultural Health: Principles and Practices (3) (Offered conjointly with Department of Health, as NSG/HEA 110). This course examines the health beliefs and practices of a variety of subcultural groups in the U.S. Emphasis is placed on the application of multi-cultural health beliefs to the caring process. It utilizes the cross cultural approach in meeting the health needs of clients and families. It is open to all college students, regardless of major, as a free elective.

212 Nursing Theories and Concepts. (3) Sophomore year. Nursing theories and concepts, conceptual frameworks, theories from other disciplines which may apply to nursing, and the nursing process are studied in this course. PREREQ: Sophomore standing.

311 Adaptation I (5) Junior year, fall semester. The emphasis of this course is the prevention of illness and promotion of health by assessment of the health status, appropriate intervention, and evaluation of the health promotion plan. The nursing process provides the framework for promotion of wellness in a variety of settings with clients of any age group.

NSL 311 Adaptation I Laboratory (5) Clinical experiences are provided in agencies where relatively well populations have been identified, such as schools, nursery schools, well baby clinics, health maintenance clinics. NSG 311 and NSL 311 always must be taken concurrently. PREREQ: NSG 212, ENG 121, CHE 104. CHL 104, CHE 230, CHE 404, BIO 100, BIO 209-309, BIO 214, PSY 100, PSY 210, SOC 200, SOC 240.

312 Adaptation II (5) Junior year, spring semester. The emphasis of this course is on the maintenance of health and promotion of adaptive responses in clients with chronic health problems. The nursing process is used to assist these clients to adapt to stressors through supportive therapeutic, palliative, and preventive measures.

NSL 312 Adaptation II Laboratory (5) Clinical experience is provided in settings where clients with chronic health problems have been identified. These settings include rehabilitation centers, a child development center, nursing homes, and acute care settings. These environments provide flexibility for students to implement changes for clients and acquire skills which will be utilized in other nursing courses. NSG 312 and NSL 312 always must be taken concurrently. PREREQ: NSG 311 and NSL 311.

411 Advanced Adaptational Problems I (5) Senior year, fall semester. The emphasis of this course is on the study of adaptive responses that create new stresses which require additional adaptations and frequently interrupt an individual's mode of functioning. The nursing process is used to assist clients in crisis.

NSL 411 Advanced Adaptation Problems I Laboratory (5) Clinical experience is provided in acute care settings, in psychiatric inpatient settings, and in community health settings. NSG 411 and NSL 411 always must be taken concurrently. PREREQ: NSG 312 and NSL 312.

412 Advanced Adaptational Problems II (6) Senior year, spring semester. NSG 412 is a continuation of NSG 411 with the emphasis on the subconcepts of decision making and advocacy. The nursing process is utilized interdependently in approaching multi-health care problems of clients. Special attention is given to inquiry as the student correlates nursing theories and concepts with identifiable research problems in varied environments. Opportunity is provided in this semester to develop organization and management skills.

NSL 412 Advanced Adaptational Problems II Laboratory (5) Clinical experience is provided in acute care settings, in psychiatric inpatient settings, and in community health settings. NSG 412 and NSL 412 always must be taken concurrently. PREREQ: NSG 411 and NSL 411.

Philosophy

George S. Claghorn, *Chairperson*

PROFESSORS: Claghorn, Croddy, Hipple, Platt, Riukas, Streveler, Struckmeyer

ASSOCIATE PROFESSORS: Banyacski, Williams

BACHELOR OF ARTS—PHILOSOPHY

The aims of philosophy are to familiarize the student with our intellectual heritage, to promote clear thinking, and to encourage an understanding of other people. As philosophy analyzes and relates many disciplines, it is general education in the broadest sense. The philosophy major is standard preparation for opportunities in business and industry, particularly in connection with computers. It leads also to government posts dealing with personnel, problem-solving, and work with other cultures. Philosophy is recommended for pre-law and pre-seminary students. This program opens the way to graduate work and to careers in college teaching.

BACHELOR OF ARTS—PHILOSOPHY

Concentration: Philosophy

1. General Requirements, see pages 58-60. PHI 101 and one course in political science are to be taken either under general requirements or as cognate requirements.
2. Foreign Language/Culture Requirements: See page 60.
3. Cognate requirements, one course in each of the following:
   Natural Science (Biology, Chemistry, Earth Sciences, or Physics),
   Literature
   Philosophy
   Speech Communication/Theatre
   Plus one other course from the above*
4. Philosophy Concentration Requirements: 24 hours, including PHI 180, 190, 270, 272, and 499. PHI 174 is recommended.
5. Additional Electives, to complete 128 s.h., under advisement.

Concentration: Religion

1. General Requirements, see pages 58-60. PHI 102 and one course in political science are to be taken either under general requirements or as cognate requirements.
2. Foreign Language/Culture Requirement: See page 60 or equivalent proficiency.
3. Cognate requirements, one course in each of the following:
   Natural Science (Biology, Chemistry, Earth Sciences, or Physics),
   Literature
   Philosophy
   Speech Communication/Theatre
   Plus one other course from the above*
4. Religious Studies Concentration Requirements: 24 hours, including, PHI 261, 271, 277, 278, 349, and SOC 344.
5. Additional Free Electives 21-38 s.h.

Minor: Philosophy

Introduction to Philosophy (PHI 101)	3 s.h.
Critical Thinking and Problem Solving, or Logic (PHI 150 or 190)	3 s.h.
Principles of the Arts, or Introduction to Ethics (PHI 174 or 180)	3 s.h.

*Subject to review by the College.

History of Philosophy, Ancient, Medieval, or Modern (PHI 270, 271, or 272)	3 s.h.
Philosophy Electives, under advisement	6 s.h.
	18 s.h.

Minor: Religious Studies

Introduction to Religious Studies (PHI 102)	3 s.h.
Religions of the West, I or II (PHI 202 or 203)	3 s.h.
Philosophies and Religions of India, or of the Far East (PHI 204 or 205)	3 s.h.
Ideas of the Bible (PHI 349)	3 s.h.
Electives, under advisement	6 s.h.
	18 s.h.

COURSE DESCRIPTIONS
PHILOSOPHY
Symbol: PHI

Note: Only PHI 399, 412, 436, and 499 have prerequisites. All other philosophy courses are nonsequential and open to all students. Not all courses will be offered every year.

INTRODUCTORY COURSES IN PHILOSOPHY AND RELIGION

★ **101 Introduction to Philosophy (3)** The chief problems and methods of philosophic thought, with a survey of some typical solutions. The place and influence of philosophy in the life of man today. Offered every semester.

102 Introduction to Religious Studies (3) The role of religion in human life. Illustration drawn from various traditions, rituals, and belief patterns, both ancient and modern.

150 Critical Thinking and Problem Solving (3) Introduction to the principles of valid inference and effective thinking. Problem solving; puzzles; games; decision-making; the syllogism; probability; logical fallacies; creative thinking.

174 Principles of the Arts (3) Contrasting systems for the analysis and evaluation of works of art—literature, the visual arts, and music.

★ **180 Introduction to Ethics (3)** Great ethical systems of history and their application to personal and social life. The right and the good; the nature of values; and critical ethical dilemmas.

COURSES IN THE HISTORY OF PHILOSOPHY

270 History of Ancient Philosophy (3) A survey of the major figures of ancient philosophy, from the pre-Socratics through Plato, Aristotle, the Epicureans, and Stoics, to the Skeptics and Neo-Platonists. Offered in fall.

★ Approved distributive requirements course

271 History of Medieval Philosophy (3) The history of philosophy from the early Church fathers to the late Middle Ages. St. Augustine, St. Thomas, mysticism, Jewish and Mohammedan influences, humanism, and the rise of science.

272 History of Modern Philosophy (3) From Descartes to Hegel. The social, political, and scientific impact of the philosophers. Offered in spring.

273 19th Century Philosophy (3) Hegel and German Idealism; decisive influences on European and American literature and thought. Survey of the chief themes of Schopenhauer, Comte, Mill, Spencer, Marx, Kierkegaard, Darwin, and Nietzsche.

274 Contemporary Philosophy (3) Philosophic trends since 1850, including the process philosophy, Pragmatism, Positivism, Existentialism, and the Analytic School.

284 American Philosophy (3) Leaders in science, literature, religion, and government who have shaped American thought. Philosophers of Puritanism, the Revolution, Transcendentalism, and native schools of Realism, Idealism, and Pragmatism.

415 Existentialism (3) The rise and development of Existentialism. Chief exponents; views of man; influence on ethics, literature, and social action.

COURSES ON PHILOSOPHICAL TOPICS

190 Logic (3) The art of critical thought and of sound reasoning. Formal and classical logic; propaganda; introduction to the scientific method. Offered every semester.

201 Contemporary Issues (3) Discussion and analysis of contemporary philosophical issues of particular concern to students, such as death, personal identity, environmental ethics, and human labor. The topic varies from semester to semester.

330 (also LIN 330) **Introduction to Meaning** (3) Relationship between linguistics and philosophy, with emphasis on meaning in language. Some issues in the theory of meaning from both linguistics and philosophy; materials from each field to help solve these issues.

360 (also LIN 360) **Philosophy of Language** (3) Questions of meaning in communication. Emphasis on contemporary discussions of theories of natural language.

382 **Social Philosophy** (3) The relation between man and the state, especially as seen by recent thinkers. Justice, natural rights, political obligation, freedom, and equality.

406 (also LIN 406) **Meaning in Language** (3) The difference between the meaning of a sentence uttered by a speaker and the act the speaker intended to accomplish by the utterance; a survey of literature dealing with this distinction; and discussion of problems associated with this distinction.

412 **Ethical Theories** (3) Advanced course in ethical theory, stressing applications. Prerequisite: PHI 180 or permission of the instructor.

413 **Aesthetic Theories** (3) Interpretation of beauty and art. Effects of motivation; problems in media and in goals. A background of meaning for the evaluation of specific works of painting, sculpture, music and architecture.

414 **Philosophy of Religion** (3) Religion and the religious experience as viewed by major Western thinkers. The existence of God, immortality, religious knowledge, evil, miracles, and science and religion.

422 **Philosophy of Science** (3) The nature of scientific method and scientific theory, with reference to presuppositions, inference, explanation, prediction, applications, and verification.

436 **Symbolic Logic** (3) Principles and methods of symbolic logic. Practice in determining validity of sentential and quantificational arguments. The algebra of classes.

483 **Philosophy of History** (3) Classic philosophies of history, including those of Augustine, Vico, Hegel, Marx, Spengler, Toynbee and Collingwood. Definitions of civilization, norms of progress and decadence, determinism and indeterminism, causality, and pattern.

488 **Theory of Knowledge** (3) Theories of truth, perception, and understanding. Classic and contemporary discussions on the nature of the self, in relation to the known world.

COURSES IN RELIGION

202 **Religions of the West, I** (3) A survey of the thought of Christianity and Judaism to the year 500.

203 **Religions of the West, II** (3) A survey of the thought of Christianity, Islam, and Judaism, from the year 500 to the present. Emphasis on theological development, with attention to social, economic, and historical factors.

204 **Philosophies and Religions of India** (3) The religious and philosophical heritage of India, from Vedic times to the present. Examination of major classics, such as Rig Veda, Upanishads, Bhagavad-Gita, and Yoga-sutras, with some attention also to recent writers such as Tagore, Gandhi, and Radhakrishnan.

205 **Philosophies and Religions of the Far East** (3) A survey of Far Eastern philosophy, religion and scientific thought. Confucianism, Taoism, and the various schools of Mahayana Buddhism, including Zen, are given primary emphasis.

349 **Ideas of the Bible** (3) An introduction to Biblical concepts of revelation, God, Nature, man, and redemption, in the light of Hebrew and Greek thought.

414 **Philosophy of Religion** (3) See "Courses in Philosophical Topics," above.

INDEPENDENT STUDIES AND SEMINARS

399 **Seminar in Philosophy** (3) An in-depth study of a man or topic in philosophy. Open to all. PREREQ: 6 hours of philosophy or permission of instructor.

410 **Independent Studies** (1-3)

499 **Philosophic Concepts and Systems** (3) An intensive study of the major works of one philosopher, stressing themes and comparison with other views. Required of all philosophy majors. PREREQ: 6 hours of philosophy and senior standing or permission of instructor.

Physical Education

David S. Charters, *Chairperson*
Norman A. Cochran, *Assistant Chairperson—Professional Foundations and Sports Studies*
Ralph H. Kapilian, *Assistant Chairperson—Applied Science*
Katherine Margerum, *Coordinator Field Experiences*
John N. Trezise, *Assistant Chairperson—Division of Leisure*

PROFESSORS: Donley, Lank, Lowe, Norris, Serpico, Sturzebecker, Woods, Youmans

ASSOCIATE PROFESSORS: Bonsall, Butler, Coates, Collier, Furlow, Goodwin, Greenwood, Karas, Lorback, Martin, Parkinson, Wilkinson, Wintermute, Yoder

ASSISTANT PROFESSORS: Bitner, Caldwell, Countiss, Giunta, Godek, Jones, Kneidinger, Lauletta, Pagano, Ray, Remley, L. Smith, Taylor, Trnka

INSTRUCTORS: Lappano, Lubking, Thielz

BACHELOR OF SCIENCE IN HEALTH AND PHYSICAL EDUCATION, TEACHER CERTIFICATION

1. General Requirements

Explorations in Human Relations (SOC 135)	1 s.h.
School & Society (EDF 100)	3 s.h.
Introduction to Psychology (PSY 100)	3 s.h.
Introduction to History (HIS 100)	3 s.h.
Introduction to Philosophy (PHI 101)	3 s.h.
Introduction to Anthropology (ANT 102) or Introduction to Sociology (SOC 200)	3 s.h.
Introduction to College Math (MAT 103)	3 s.h.
Effective Writing I (ENG 120)	3 s.h.
Effective Writing II (ENG 121)	3 s.h.
Psychology of Learning & Development (EDP 250)	3 s.h.
	28 s.h.

Electives

Literature-LIT 165	3 s.h.
Social & Behavioral Sciences ECO 101, GEO 101, PSC 100, or PSC 121	3 s.h.
Science-Mathematics-CSC 101, ESS 101, or PHY 100	3 s.h.
Art	3 s.h.
	12 s.h.
Free Electives (P.E. majors required to take Fundamentals of Speech—SPH 101)	9 s.h.

2. Physical Education Theory

Prep. Teach. Activity (PED 243)	1 s.h.
Principles of Recreation (PED 250)	2 s.h.
Physical Act. Special Child. (PREREQ: BIO 209) (PED 251)	3 s.h.
Safety Concepts, First Aid and Athletic Training (PED 271)	2 s.h.
Teaching P.E. in the Elementary Grades (PREREQ: PED 243) (PED 350)	3 s.h.
Evaluation in H&PE (PED 351)	3 s.h.
Applied Physiology (PREREQ: BIO 209, 309) (PED 352)	3 s.h.
Organization & Administration of P.E. (PED 353)	3 s.h.

Kinesiology (PREREQ: BIO 209, 309) (PED 361)	3 s.h.
History & Philosophy (PED 451)	2 s.h.
Student Teaching (PREREQ: PED 243, 350, 353, HEA 206,373) (PED 490)	12 s.h.
	37 s.h.

3. Related Requirements

Chemistry & Man (CHE 100)	4 s.h.
Foundations of Health I (HEA 201)	3 s.h.
Foundations of Health II (HEA 202)	3 s.h.
Human Development (HEA 206)	3 s.h.
Human Anatomy (BIO 209)	3 s.h.
School Health Program (HEA 305)	3 s.h.
Prep. for Classroom Teaching (HEA 306)	3 s.h.
Human Physiology (BIO 309)	3 s.h.
	27 s.h.

4. Physical Education Activities

Required Core:

Aquatic Fundamentals (PED 140)	1 s.h.
Social/Folk/Square Dance (PED 141)	1 s.h.
Tennis/Badminton (PED 142)	1 s.h.
Golf/Archery (PED 143)	1 s.h.
Fundamental Movements, Elementary Rhythms (PED 242)	1 s.h.

Elective Track: (5 credits required)

Soccer/Basketball (PED 111)	1 s.h.
Gymnastics (Women's Equipment) (PED 113)	1 s.h.
Hockey/Volleyball (PED 211)	1 s.h.
Lacrosse/Track (PED 213)	1 s.h.
Modern Dance I (PED 215)	1 s.h.
Soccer/Wrestling (PED 110)	1 s.h.
Gymnastics (Men's Equipment) (PED 112)	1 s.h.
Baseball/Basketball (PED 210)	1 s.h.
Football/Track (PED 212)	1 s.h.
Volleyball/Conditioning (PED 214)	1 s.h.

5. Area of Concentration — minimum of 7 s.h.

Students who do not elect an area of concentration must select any seven hours of courses from those listed under all areas of concentration.

BACHELOR OF SCIENCE IN HEALTH AND PHYSICAL EDUCATION, STUDENT DESIGNED CONCENTRATION

Introduction

In order to meet the shifting needs of society as reflected in the employment opportunities available for its students, the Department of Physical Education has developed a unique curricular approach: "The Student Designed Concentration" (SDC).

The SDC allows students to prepare themselves for a wide variety of career options that do not require certification as a teacher. The recent growth in sport, leisure and recreational activities has produced an emerging need for specialists trained to work in these areas. For example, students might, within the SDC program, prepare for such diverse occupations as sports writer and/or information specialist, health and/or sports club manager, geriatric cardiac rehabilitation technician, exercise specialist, etc.

While adhering to sound curricular and/or professional standards, the SDC program will enable qualified students under thorough advisement and counseling to pursue an individualized course of study leading to the Bachelor of Science degree in Health and Physical Education, with or without teacher certification.

Objectives

The general objective of the Student Designed Concentration (SDC) is to provide each individual student who is so motivated and otherwise qualified an opportunity to prepare himself/herself for a specific vocational outlet which is related to health and physical education but which does not necessarily require teacher certification.

A. Assist interested students in identifying specific vocational outlets other than the teaching in public and/or private schools.
B. Provide interested students with a curricular framework for the planning of a course of study designed to meet their individual vocational goal.
C. Provide interested students with a specifically trained advisement team to assist them in planning and completing their SDC program.
D. Provide a mechanism for certifying individual students within the SDC program for graduation with a Bachelor of Science Degree in Health and Physical Education.

Qualifications

To be eligible for admittance into the S.D.C. program a student must be accepted as a student of W.C.S.C. as a Health and Physical Education major.

How to Enroll in The S.D.C. Program

To be eligible for admittance into the S.D.C. Program a student must:

* Apply for and be accepted for admittance as a Health and Physical Education Major at West Chester State College.
* Upon acceptance as a Health and Physical Education Major at West Chester State College, the student will with the aid of his or her advisor submit a preliminary proposal for acceptance to the S.D.C. Committee.
* Once the preliminary proposal is accepted, the S.D.C. Committee will appoint from among its members, as well as from other campus-wide persons who may play a vital role in the successful completion of the program proposal, an academic advisor.
* Upon completion of the preliminary proposal and the assigning of the S.D.C. advisor(s) the student and his/her advisor(s) shall prepare a final proposal containing the exact curriculum to be followed and an appropriate arrangement for an internship experience.
* Once this final proposal is accepted by the S.D.C. Committee and the Department Chairperson, the student will be accepted into the S.D.C. Program.

AREAS OF CONCENTRATION (SELECT ONE)

SECONDARY PHYSICAL EDUCATION CONCENTRATION

Required: Prep for Tchg (PED 310), Principles of Coaching (PED 452). Select 4 credits from the following: PED 312, 314, 316, 318, 320, 321, 322, 323, 324, 325, 326, 327, 328, 330, 331, 453, 454.

ELEMENTARY PHYSICAL EDUCATION CONCENTRATION—7 S.H.

Required: Elementary Physical Education Curriculum (PED 354). Select two of the following three courses: PED 340, PED 440 or PED 453.

DANCE CONCENTRATION—7 S.H.

Required: Modern Dance I-II (PED 215-343); History of the Dance (PED 344); Dance Production I (PED 345); Dance Production II (PED 346); Principles of Choreography (PED 441). Select one dance course from PED 341 or 342. Select one course from: PED 442-443. Select one course from PED 101—Jazz or Ballet.

SAFETY CONCENTRATION—12 S.H.

Required: Accident Causation and Prevention (PED 355); Critical Problems Within the Highway Transportation System (PED 356); High School Driver Education Program Management (PED 450); Introduction to the Driver Task (PED 456). NOTE: Meets State certification requirements for driver education.

ATHLETIC TRAINING CONCENTRATION—18 S.H.

Required: Therapeutics (PED 460, 460-L), Advanced Athletic Training I (PED 461, 461-L) Advanced Athletic Training II (PED 462), Athletic Injury Management I & II (PED 463 & 464). Note: approved athletic training education program by National Athletic Trainers Assoc.

SPECIAL PHYSICAL EDUCATION CONCENTRATION—10 S.H.

Required: Therapeutics for Special Physical Education (PED 362, 362-L); Pathology for Special Physical Education (PED 360). Select either PED 457 or Psychology of Exceptional Children (EDA-241).

SECONDARY HEALTH EDUCATION CONCENTRATION—Minimum of 9 S.H.

Select from the following courses for a minimum of 9 semester hours: At least two courses from HEA 103, 105, 106, 301, 305, 401. Any of these: Mental Hygiene (PSY 370); Contemporary Social Problems (SOC 332); Basic Ecology (BIO 201).

RECREATION AND/OR OUTDOOR EDUCATION CONCENTRATION—7-9 S.H.

This is a two-track program. The student may, under advisement, select courses in recreational services and/or outdoor education.

NON-DEGREE PROGRAMS

Certification in Driver Education and Safe Living (Highway Safety and General Safety Education).

Completion of the following program will enable the teacher to endorse his teaching certificate with this area. Students must apply for the endorsement through the office of the dean of the School of Education.

PED 355, 356, 450, 456 — 12 s.h.

The program may be taken in whole or in part during summer sessions. Some of the courses are also offered in fall and spring semesters.

ATHLETIC TRAINING EDUCATION PROGRAM

In 1972 the school introduced a program, approved by the National Athletic Trainer's Association, which prepares students to become certified athletic trainers. As of 1974 West Chester was the only college offering this new opportunity toward certification in a summer program. Interestingly, the West Chester program has had an outstandingly high percentage of women participants. The training-education program is designed for both undergraduates and in-service teachers and coaches.

The following courses can be taken during a nine-week summer period as partial fulfillment of the National Athletic Trainer's approved program for preparation toward national certification. The total program consists of a 18-hour block, with prerequisites. Twelve of these hours are offered, as follows:

PED 460, 460-L, 461, 461-L, 462 — 12 s.h.

Consult the Undergraduate Summer Catalog for schedules. Or write to the School of Health and Physical Education before March 1.

COACHING CERTIFICATE PROGRAM (ATHLETIC COACHING, K-12)

Those students who successfully complete the program at West Chester earn a transcript and written endorsement from the School of Health Sciences attesting to school administrators that recipients have attained basic preparation for coaching. The program is a model for a needed broadening of coaching standards. Students pursuing the B.S. in Health and Physical Education automatically achieve coaching certification.

Certification requires competencies equivalent to fifteen (15) to eighteen (18) hours of course work. Behavioral competencies in the theoretical foundations of coaching; skill acquisition; and management techniques are also required. Course offerings at both the undergraduate

and graduate levels are available. The program is open to any person who applies for admission through the chairperson of the Physical Education Department. Applicants should direct inquiries to that office.

RECREATIONAL OUTDOOR PURSUITS EDUCATION CERTIFICATE PROGRAM

Recreational Outdoor Pursuits Education is that aspect of outdoor recreation that is concerned with adventure activities and using the natural environment to attain educational goals.

West Chester State College has since 1971 offered a variety of outdoor pursuits courses as well as a concentration in Recreational Outdoor Pursuits. During this time there has been an increased interest in Adventure Education by schools, state agencies, camps, and adventure programs with an expanded demand for qualified individuals to serve as leaders and instructors.

This growth has been accompanied by a demand for more competent individuals who can provide safe, as well as educational, sound experiences. The Recreational Outdoor Pursuits Education Certificate Program has been designed to provide the student with the knowledge, skills, and experience necessary to conduct safe and educationally sound outdoor pursuits experiences and to provide the student with tangible evidence of his or her level of competency.

A student who successfully completes the 25 semester hours of required and elective courses and the related non-credit requirements of the program will receive a certificate, transcript recognition, and written endorsement from the School of Health and Sciences attesting to their depth of training, proficiency in skills, and leadership abilities.

FACILITIES

Facilities to support the programs of the department have kept pace with a rapid increase in students and faculty. The Health and Physical Education Center and field complex, located on south campus, provide the college with one of the nation's outstanding facilities for education and research in health and physical education. Among its notable components are its research facilities, its multi-purpose teaching stations, and a one-acre gymnasium divisible into six separate pneumatically sealed gymnasiums. A vast complex of tennis courts and baseball, lacrosse, field hockey, soccer, and football fields are also located on the south campus.

COURSE DESCRIPTIONS

PHYSICAL EDUCATION ACTIVITY COURSES

Symbol: PEA (2) (1)

A program of selected activities for all students. (Formerly designated PED 101-102)

100 Basic Swimming (nonswimmers)
101 Swimming Styles (strokes)
102 Springboard Diving
103 Advanced Life Saving
104 Skin & Scuba Diving
105 Sailing*
106 Canoeing
107 Orienteering
108 Rock Climbing & Rappelling
109 Backpacking & Camping
110 Cycle Touring
111 Cross Country Skiing*
112 Horsemanship*
113 Angling
114 Skiing, Downhill*
115 Physical Conditioning
116 Personal Defense
117 Karate*
118 Ice Skating*
119 Archery
120 Badminton
121 Bowling*
122 Fencing
123 Golf
124 Gymnastics Men
125 Gymnastics Women
126 Handball Raquetball
127 Squash
128 Tennis

129 Basketball

130 Softball

131 Volleyball

132 Modern Dance

133 Modern Jazz

134 Ballet

135 Tap Dancing

136 Fitness for Life (Theory & Lab)

190 General Activity

201 Power & Competitive Swimming

212 Advanced Horsemanship*

228 Advanced Tennis

231 Advanced Volleyball

233 Modern Jazz II

234 Ballet II

236 Developing Personal Fitness Programs - Evening Degree Candidates Only. (2) (2) This course is designed to provide the student with a basic understanding of the scientific basis of physical fitness. The course is intended to help each student in developing a personal fitness profile and subsequent program of physical activity that will result in healthful living. The course will make use of practical experiences and actual participation in fitness activities. Individual progress will be emphasized.

PHYSICAL EDUCATION
Symbol: PED

The first number in parentheses shows number of class meetings per week; the second one shows semester hours of credit.

107 Music and Movement (2) (1) A course which examines and develops the perception of rhythm through movement.

110 Soccer I/Wrestling (3) (1)

111 Soccer/Basketball (3) (1) Emphasis is placed upon fundamental skills, women's rules and tactics of each sport, accomplished through drills and game situations.

112 Gymnastics I (Men's equipment) (3) (1) Apparatus skills, stunts, tumbling, and pyramids for teaching all age levels.

113 Gymnastics I (Women's equipment) (3) (1) Apparatus skills, stunts, tumbling, and pyramids for teaching at all age levels.

140 Aquatics Fundamentals (3) (1) Basic principles of swimming are studied with an emphasis on the mechanical analysis and practice of all strokes; introduction to diving and competitive swimming; safety and survival techniques; water games.

141 Social, Folk, Square Dance (3) (1) Experience in the basic (50) square dance calls, international folk dance and traditional ballroom dances.

142 Tennis/Badminton (3) (1) An explanation of the mechanics and specific skills of both tennis and badminton. Emphasis is placed on conceptual understanding and personal skill development through a variety of teaching progressions and methods.

143 Golf/Archery/Recreational Games (3) (1)

200 Elementary School Physical Education (3) (2) Theoretical and practical approach for the teaching of physical activities to elementary school children by the classroom teacher.

210 Basketball/Baseball (3) (1)

211 Hockey and Volleyball (3) (1) Basic fundamentals, tactics, and women's rules. Modified active games. Geared to teaching physical education classes.

212 Football and Track/Field (3) (1)

213 Lacrosse and Track/Field (3) (1) Lacrosse: Basic fundamentals, tactics, and women's rules. Modified active games. Geared to teaching physical education classes. Track and field: Principles of running, throwing, jumping. Modification needed for physical education classes. Self-testing.

214 Physical Conditioning/Volleyball (3) (1)

215 Modern Dance I (3) (1) Basic course offering the fundamentals of technique and improvisation.

242 Fundamental Movement and Elementary Rhythms (3) (1) Fundamental locomotor and axial movement; music and rhythm in relationship. Rhythmical activities for the elementary program, with suggested teaching methods.

243 Preparation for Teaching Activities (3) (1) Methods of teaching in all areas of physical education and the development of appropriate lesson plans for all ages. PREREQ: 4 activity courses.

250 Principles of Recreation (2) (2) Historical background of the play movement: theoretical explanations of play; the need for it and its place in education. Methods of recreation leadership.

251 Physical Activity for Special Children (3) (3) A course of adapted physical education. Common childhood disabilities are studied, with emphasis on problems of a chronic nature. Also screening and practical training, working with physically and mentally handicapped children.

252 Classroom Activities for the Special Child (3) (3) To acquaint special education teachers with physical education activities useful in the classroom and developmental in nature.

271 Safety Concepts, First Aid, Athletic Training (3) (2) Prepares the student to recognize and treat injuries that require immediate and long-term treatment.

308 Officiating (9 weeks) (3) (1/2) Ethics and techniques of officiating. Students may select from variety of sports.

310 Preparation for Teaching Secondary Physical Education (3) (1) Each student develops a physical education activity unit and teaches one lesson from that unit. Further opportunities for familiarization with various teaching methods and styles through observation, demonstration lessons, and actual practice.

312 Tennis II (9 weeks) (3) (1/2) PREREQ: PED 142

314 Track and Field II (9 weeks) (3) (1/2) PREREQ: PED 212.

316 Basketball II (9 weeks (3) (1/2) PREREQ: PED 210.

318 Lacrosse II (9 weeks) (3) (1/2).

320 Baseball (9 weeks) (3) (1/2) PREREQ: PED 210.

321 Volleyball II (9 weeks) (3) (1/2) PREREQ: PED 211.

322 Soccer II (9 weeks) (3) (1/2) PREREQ: PED 110.

323 Field Hockey II (9 weeks) (3) (1/2) Individual and team tactics and special situations. Basic knowledge needed for coaching hockey. PREREQ: PED 211.

324 Football II (9 weeks) (3) (1/2)

326 Wrestling II (9 weeks) (3) (1/2) PREREQ: PED 110.

327 Gymnastics II (Women's equipment) (3) (1) Teaching and coaching techniques for apparatus stunts, tumbling, pyramids. PREREQ: PED 113.

328 Gymnastics II (Men's equipment) (9 weeks) (3) (1/2) Advanced work on gymnastics apparatus including trampoline, with emphasis on teaching progression, spotting techniques, and class safety. PREREQ: PED 112.

330 Life Saving (9 weeks) (3) (1) Review of basic aquatic skills. Emphasis on lifesaving practices, safety and survival techniques. Successful completion of this course may lead to senior lifesaving certification by the American Red Cross.

331 Water Safety Instruction (3) (2) Leadership procedure in aquatics activities for schools and school camps. Swimming strokes and life saving techniques are analyzed. Opportunity to qualify as a waterfront safety instructor.

340 Self Testing Activities in Elementary School Physical Education (2) (2) Theory and methods to present activities to children on an individualized self-testing basis. The opportunity is provided for direct contact with children to try out the self-testing activities and prepare individualized programs.

341 Advanced Social and Square Dance (3) (1) Experience with square dancing beyond the 50 basic calls, opportunity for calling squares, and more intricate social dance styles.

342 Advanced Folk Dance (3) (1) International folk dances requiring an advanced degree of difficulty with step patterns, formations and styling. Opportunities for teaching, resource material and performance.

343 Modern Dance II (3) (1) Continuation and development of the training offered in PED 215. Emphasis is placed on longer combinations and more complex problem-solving themes. PREREQ: PED 215.

344 History of Dance (3) (2) Evaluation of dance as an art form in relation to man and his society. Physiological, sociological, and psychological implications; dance forms and types. Film and other materials focus on parallel developments in related arts.

345 Dance Production Workshop I (3) (1) Survey of six styles of dance performance: ballet, modern, jazz, Afro-American, tap, folk. Each area is studied independently of the other areas. All are integrated into a final performance, created and directed by the students and available for school, college, and community presentation.

346 Dance Production Workshop II (3) (1) An extension of PED 345. Emphasis is on production elements and a final, student-created and directed performance, available for school, college, and community presentations.

347 Summer Dance Workshop (Technique Emphasis or Composition) (2) (1) Provides new experiences and reinforces known experiences in areas of modern dance techniques, ballet techniques, dance composition, and analysis of teaching materials.

348 Aerobics Jazzercize (2) (1) The purpose of this course is to teach various dance exercises, dance movements and aerobic dance routines to music with the intent of promoting cardiovascular fitness and endurance and improving muscle tone and coordination.

350 Teaching Physical Education in the Elementary Grades (6) (3) Students are assigned to elementary schools for teaching and observation with cooperating teachers and college supervisors. (Mon.-Wed.-Fri. 1-3 p.m.) PREREQ: PED 243.

351 Evaluation in Health and Physical Education (3) (3) Selecting, administering, scoring, and evaluating tests of physical fitness, gen-

eral motor ability, motor educability, and skill and knowledge.

352 Applied Physiology (3) (3) The application of physiological principles to physical education.

353 Organization and Administration of Physical Education, Health and Athletics (3) (3) Principles of program building in curricular and extracurricular programs; organizing, administering, and supervising physical education, health, intramural and interscholastic physical education, Health, programs.

354 Elementary Physical Education Curriculum (3) (3) Constructing and evaluating the curriculum in elementary physical education. Progression and continuity, along with developmental needs and interests of children, are considered.

355 Accident Causation and Prevention (3) (3) Survey of safety education. History, philosophy, and psychology of accident prevention.

356 Critical Problems Within the Highway Transportation System (3) (3) Techniques of assessing the knowledge, skill and psycho-physical characteristics of a beginning driver; the relation of these to the safe operation of a motor vehicle.

360 Pathology of Special Education (2) (2) Considerations of the commonly seen disabling conditions in special physical education with regard to anatomical and physiological changes and differences in their prognosis.

361 Kinesiology (3) (3) Basic fundamentals of movement, articulation, muscular actions; analysis of the related principles of mechanics.

362 Therapeutics for Special Physical Education (3) (3) A course for those students interested in the special physical education concentration Manual muscle testing, ROM measurement, orthopedic evaluations, principles of therapeutic exercise, and guidelines for exercise programs for those handicapping conditions commonly seen in schools are presented. PREREQ: BIO 10^9, BIO 30^9, PSY 100, HEA 206, PED 251, PED 352, PED 361.

362-L Therapeutics for Special Education, lab (3) (2) A course designed to give those students enrolled in PED 362 practical experience in those topics presented in PED 362. PREREQ: PED 362.

367 Arts and Crafts in Recreation (3) (3) Theoretical and practical applications of arts and crafts as recreative outlets for all age groups. Arts and crafts materials customarily found in school, camp, and community recreation programs are used.

PED 368 Leadership in Recreation (3) (3) Basic concepts and leadership techniques, studied in various recreation settings. Opportunities for students to practice and develop their own techniques through work in community recreation agencies.

369 Principles of ROPE (3) (3) History, philosophical background, objectives, educational strategies, curriculum, safety considerations, and administration of an adventure-based outdoor pursuits program.

370 Camp Counseling (3) (3) Theory and practice in camping and outing programs, approached from viewpoints of the camper, counselor, supervisor, specialists, and director.

★371 Wilderness Adventure I (Mini Outward Bound) (2) (1) An Outward Bound experience. Exposes the student to the Outward Bound philosophy, curriculum, and methodology.

★372 Wilderness Adventure II (2) (2) The Wilderness Adventure experience is an adaptation of the Outward Bound Program. The experience is designed to provide the participants with an experiential outdoor pursuits experience.

★373 Wilderness Adventure III Canoeing (2) (2) Provides the participant with an experiential outdoor pursuit experience to increase their skill level in the adventure and high risk outdoor pursuits activities.

375 Outdoor Recreation (3) (3) The purpose of this course is to acquaint the student with the role outdoor recreation plays in today's society. The student will develop an appreciation for the outdoors through participation in outdoor recreation programs and learning skills necessary to participate in the program.

376 Recreational Games (3) (2) This course is designed to provide the student with the skills, techniques and available resources involved in planning and directing recreational games. Instruction includes selection of games, activities and opportunities for practical application of interested students.

377 Intramural and Recreational Sports (3) (3) A study of the basic ingredients required for administering successful intramural program. The student serves in the intramural office and program as a student leader and supervisor. In addition, the student will study the rules, regulations, and policies of community sports with national headquarters and leadership.

430 Planning Facilities for Athletics, Physical Education and Recreation (3) (3) Management and planning of the facilities for athletics, school physical education, and recreational programs, playfields, playgrounds, buildings and auxiliary structures as well as the maintenance of these facilities.

440 Movement Education in Elementary Physical Education (2) (2) Teaching techniques

★ Additional fee required.

and subject matter for a program of movement education suitable for children. Designed to help children develop awareness of the body and space in order to develop effective movement patterns.

441 Principles of Choreography (3) (1) The art of dance composition. Basic elements of space, rhythms, and motion dynamics. Students design original movement, progressing from simple to complex solo and group forms. PREREQ: PED 215.

442 Dance Notation Improvisation (3) (1) Designed to give the student exposure to improvisational themes and elementary skills of recording movement through written symbols.

443 Dance and Theatre Arts (3) (1) Advanced level modern dance techniques, with emphasis on all aspects of production: accompaniments, costume, sets and lighting.

444 Dance/Movement for the Aged and Disabled (2) (2) Adaptation of dance movement with emphasis on methods, techniques, and activities suitable for special groups (elderly, disabled, mental retardation, special groups).

445 Organization and Management of Aquatic Facilities (3) (3) A study of the organization and administration of aquatic recreational areas, including ocean, natural fresh water and manmade facilities. The student will acquire the skills and understandings necessary to develop aquatic programs and/or manage aquatic facilities.

448 Research Laboratory Techniques in Preventive Medicine (3) (3) To inform students in area of preventive medicine of the latest medical techniques and practical application. PREREQ: BIO 209, 309, PED 352.

449 Learning on the Move (3) (3) A combination of movement education and perceptual motor theory and activities to help teachers and parents to guide the children to maximum developmental potential. Pre-school, nursery, and kindergarten ages.

450 High School Driver Education Program Management (3) (3) A study of the total safety program, with emphasis on the teaching of safety. Each student prepares a practice lesson.

451 History and Philosophy of Health and Physical Education (2) (2) A study of past and present concepts of physical education; philosophy and principles of modern physical education programs.

452 Principles of Coaching (2) (2) Principles and methods of coaching sports in the school program.

453 Motor Learning (2) (2) A study of the theories of learning in relation to the acquisition of motor skills.

454 Theories and Practices of Conditioning and Training (2) (2) The application of modern principles to the training and conditioning of athletes. The students will design a year-round conditioning program that considers age and level of competition as well as individual development differences.

456 Introduction to the Driving Tasks (3) (3) An advanced course to prepare students to teach driver education in the secondary schools.

457 Psychology of Physical Disability (3) (3) A course designed for students in special education. Psychology applied to physical disability; personal and cultural implications of handicaps; the psychodynamics of disability.

458 Physical Disabilities of Childhood (2) (2) A course designed for students in special education. Common orthopedic and neurological disabilities of childhood, especially chronic deviations. Emphasis is on understanding the medical aspects and problems of rehabilitation.

460 Therapeutics for Athletic Training (3) (3) This course is designed to prepare the student in the theory of therapeutic exercise and the physiological basis of therapeutic modalities.

460-L Therapeutics for Athletic Training, lab (3) (2) This course is designed to develop skills in the evaluation of injury, therapeutic exercise techniques and application of therapeutic modalities. PREREQ: PED 357.

461 Advanced Athletic Training I (3) (3) This course is designed to present the anatomy of the body and the injuries that occur in sports. Prevention, causes, signs, symptoms, initial management and support for activity for each injury will be presented.

461-L Advanced Athletic Training I, lab (2) (1) Course is designed to reinforce learning of human anatomy with lab experiences and provide opportunity to practice skills needed for the support of athletic injuries for activity. PREREQ: PED 358.

462 Advanced Athletic Training II (3) (3) A review of special problems. PREREQ: PED 358.

463 Athletic Injury Management I (3) (3) A practical course designed to provide the student with guided exposure to experiences normally found in an athletic training program supporting fall and winter sports. PREREQ: PED 359.

464 Athletic Injury Management II (3) (3) A practical course designed to provide the student with guided exposures to experiences normally found in the athletic training program supporting winter and spring sports. PREREQ: PED 459.

467 Supervised Camping Leadership (Arranged) (3) A program in camp leadership at children's summer camps. PREREQ: consent of instructor.

470 Leadership in Recreational Outdoor Pursuits (3) (3) This course is designed to provide instruction which would help persons desiring to pursue a career in Recreational Outdoor Pursuits Education, or develop an outdoor education or physical education program utilizing outdoor pursuits activities, processes, and educational methodology develop the background to do so in a safe and meaningful manner.

473 Independent Study and Special Projects (1-3) Provide an opportunity for selected students to pursue areas of special interest and talent or to take advantage of special conferences and/or seminars. PREREQ: approval of department chairperson.

490 Student Teaching (12) Observation and participation in teaching situations in the junior and senior high schools under qualified cooperating teachers and college supervisors. PREREQ: PED 243, 350, 353, HEA 206, 306.

491 Internship (12) Interns will perform a variety of services to the agency. It is expected that interns will be involved in meaningful work projects during the placement with adequate time to interact with their work supervisors for questions, answers, and knowledge sharing.

Physics and Pre-Engineering

Robert W. Hawkes, *Chairperson*

PROFESSORS: Rickert, Smith, Yarosewick

ASSOCIATE PROFESSORS: Hawkes, Kaplan, Skelton

The Department of Physics at West Chester State College offers three undergraduate degree programs. These are programs leading to the Bachelor of Arts in Physics, the Bachelor of Science in Education, and a cooperative five year program with Pennsylvania State University leading to a B.A. in Physics from West Chester State College and a B.S. in Engineering from Pennsylvania State University.

A minor program in Physics is also available.

BACHELOR OF ARTS—PHYSICS

The physics program at West Chester is designed as preparation for graduate school or careers in government or industry. The curriculum includes a strong foundation in mathematics and the humanities, as well as physics. It is structured on an experimental as well as theoretical basis. A wide choice of electives in the B.A. program provides the flexibility to develop a concentration in some specific area of interest. Two such area concentrations have been developed by this department with the aid of faculty from the Departments of Mathematical Sciences and Earth Sciences.

1. Physics Concentration Requirements
   A. PHYSICS: PHY 101-102, 212, 233, 251-252, 414, 421, 423, 440, 451; an additional 6 s.h. in physics must be chosen from available electives
   B. MATHEMATICS: MAT 141-142, 241-242, 343, CSC 141
   C. CHEMISTRY: CHE 103-104, CHL 103-104
2. Concentration Options
   A. Computer Science Area. The student uses electives from his program to complete the following sequence of courses: CSC 241, CSC 361, CSC 371, MAT 221, and MAT 425.
   B. Geology-Geophysics Area. In this program, electives are used to complete the sequence of courses: ESS 201, ESS 211, ESS 302, ESS 305 or ESS 311, ESS 340 and ESS 320.

Candidates for the B.A. degree in physics must meet the foreign language requirements which applies to all candidates for the B.A. degree. See page 60. The general requirements of the college, given on pages 58-60, must also be met.

In physics the recommended languages are French, German, or Russian.

BACHELOR OF SCIENCE IN EDUCATION—PHYSICS

The B.S. program in physics education provides a solid background in physics, mathematics, and related science for a teaching career at the secondary level and leads to certification to teach physics in the public schools of Pennsylvania.

1. Physics Concentration Requirements
   A. PHYSICS: PHY 101-102, 212, 233, 251-252, 421 or 422, 423
   B. MATHEMATICS: MAT 141-142, 241; MAT 343 or PHY 415
   C. SCIENCES: CHE 103-104; CHL 103-104; Astronomy elective; Biology elective; Computer Science elective
2. Professional Education Requirements
   See page 104

BACHELOR OF ARTS—PHYSICS/BACHELOR OF SCIENCE—ENGINEERING

The Department of Physics offers a cooperative engineering program with the Pennsylvania State University requiring three years in residence at West Chester State College plus two years in residence at Pennsylvania State University for study in engineering. At the end of this period the student receives two baccalaureate degrees; a B.A. from West Chester and a B.S. from Penn State.

Areas of study in engineering are:

Aerospace Engineering
Agricultural Engineering
Ceramic Science
Chemical Engineering
Civil Engineering
Electrical Engineering
Engineering Science
Environmental Engineering
Industrial Engineering
Mechanical Engineering
Metallurgy
Mining Engineering
Nuclear Engineering
Petroleum and Natural Gas Engineering

1. Physics Concentration Requirements
   A. PHYSICS: PHY 101-102, 151, 152, 211, 212, 233, 251; an additional 6 s.h. in physics must be chosen depending on engineering area selected.
   B. MATHEMATICS: MAT 141-142, 241-242, 343, CSC 141
   C. CHEMISTRY: CHE 103-104, CHL 103-104
2. Concentration Options

Students intending to enroll in chemical engineering must have in addition CHE 231 and 232; in mining engineering, ESS 201, 302, ESL 201; and petroleum and natural gas engineering, ESS 201, 211, ESL 201.

MINOR IN PHYSICS

This program offers a scientific background as a preparation for a variety of career choices, e.g., Business majors interested in careers in technologically-oriented industries; majors interested in technical scientific sales; English majors interested in technical writing; social science majors interested in the area of energy and the environment.

Required: PHY 101-102 or PHY 103-104. In addition select 7 s.h. of physics courses at the 200 level or above, chosen under advisement of the Physics Department.

COURSE DESCRIPTIONS

PHYSICS

Symbol: PHY

(2-2) represents 2 hours lecture and 2 hours lab.

★ 100 **Elements of Physical Science** (3) A study of motion, energy, light, and some aspects of modern physics stressing a conceptual and historical understanding, and the development of scientific process skills.

†101 **Physics I** (4) An introductory course. Mechanics of solids and fluids, heat, temperature, thermodynamics, the kinetic theory, and wave motion. (2-2, 2 hours recitation) CONCURRENT: MAT 141 or MAT 161.

†102 **Physics II** (4) An extension of PHY 101. Electricity and magnetism, geometrical and physical optics, and modern physics. (2-2, 2 hours recitation) PREREQ: PHY 101. CONCURRENT or MAT 142 or MAT 162.

†103 **General Physics I** (4) An introductory non-calculus physics course. Mechanics of solids and fluids, wave motion, heat and temperature, thermodynamics, and kinetic theory. (3-2) PREREQ: algebra and trigonometry.

†104 **General Physics II** (4) An extension of PHY 103. Electricity and magnetism, geometrical and physical optics, and modern physical optics, and modern physics. (3-2) PREREQ: PHY 103.

110 **Acoustics for Speech and Hearing** (3) Interference and transmission of sound waves. Measurements of sound, standard scales, acoustic pressure, intensity, use of oscilloscope.

★ 111 **Physics and Anti-Physics** (3) Relativity neutron stars, pulsars, black holes, quarks to quasar's; controversial and thought-provoking ideas of twentieth century physics. PREREQ: high school physics or equivalent.

151 **Engineering Graphics I** (1) Use and preparation of engineering drawings. Topics include: use of instruments, linework, geometric construction, lettering, orthographic and isometric projections, perspective drawings, lines, planes and auxiliary views.

152 **Engineering Graphics II** (1) A continuation of PHY 151, to include the following topics: intersections, rotations, cylinders, cones, pyramids, prisms, dimensioning, topographic maps, circuit diagrams, vector diagrams, charts and graphs. PREREQ: PHY 151.

211 **Engineering Statics** (3) Composition and resolution of forces, equivalent force systems, equilibrium of particles and rigid bodies, centroids and center of gravity, analysis of simple structures, internal forces in beams, friction, moments and products of inertia, methods of virtual work.

212 **Mechanics** (3) Kinematics and dynamics of particles and rigid bodies, work and energy, harmonic oscillations. PREREQ: PHY 102, or PHY 104, MAT 142 or MAT 162.

233 **Introduction to Modern Physics** (3) Special relativity, quantum effects, atomic structure and spectra, nuclear structure and reactions. PREREQ: PHY 102 or 104, MAT 142 or 162.

251 **Intermediate Physics Laboratory I** (1) A course to familiarize students with laboratory equipment and methods.

252 **Intermediate Physics Laboratory II** (1) A continuation of PHY 251.

320 **Fundamentals of Radioisotope Techniques** (3) Biological, chemical, environmental, and physical effects of nuclear radiation. Radiation detection instrumentation and radio tracer methodology. (2-2) PREREQ: CHE 104 and PHY 102 or PHY 104.

413 **Analytical Dynamics** (3) Wave propagation, Lagrange's equations and Hamilton's principle, rigid body motion, and special relativity. PREREQ: PHY 212, MAT 343.

414 **Heat and Thermodynamics** (3) Equations of state, first and second laws of thermodynamics, ideal and real gases, entropy, and statistical mechanics. PREREQ: PHY 102 or 104.

415 **Mathematical Physics I** (3) Selected topics in mathematics applied to problems in physics, ordinary differential equations, complex variables, hyperbolic functions, vector calculus, and numerical analysis. PREREQ: MAT 241 and PHY 102 or 104.

421 **Electricity and Magnetism I** (3) Electrostatics of point charges and extended charge distributions, fields in dielectrics, magnetic fields due to steady currents. Ampere's Law, and induced emfs. PREREQ: PHY 102 or 104.

422 **Optics** (3) Geometrical and physical optics. Reflection and refraction at surfaces, lenses, interference and diffraction, polarization. PREREQ: PHY 102 or 104.

423 **Electronics** (4) Laboratory study of standard electronic circuits—amplifiers, oscillators, power supplies, test circuits. Some theory of solid state. (1-6) PREREQ: PHY 102 or 104.

430 **Atomic Physics and Quantum Mechanics** (3) Fundamental concepts at quantum mechanics with application to atomic physics. Topics covered are Bohr model, Schrodinger equation with applications, pertubation theory, helium atom, and scattering theory. PREREQ: PHY 102, MAT

★ Approved Distributive Requirement Course.

†PHY 101-102 and PHY 103-104: Approved two-semester distributive requirement substitutes.

261 or 241, and one intermediate course in physics and/or chemistry.

440 Introduction to Research (1 to 3) Specific problems in consultation with the faculty adviser. PREREQ: consent of instructor.

444 Seminar in Physics (1) Oral and written reports on approved topics. Variation in topics from year to year depending on the interest and needs of students.

451 Advanced Physics Laboratory I (1) A course to familiarize students with contemporary laboratory equipment and methods.

452 Advanced Physics Laboratory II (1) A continuation of PHY 451.

SCIENCE
Symbol: SCP

151 Problems of Our Physical Environment (3) Energy shortage, methods of energy conversion, possibilities and limitations, transportation—alternatives to the automobile, pollution.

Pre-Professional Program

Philip B. Rudnick, *Director*

Committee Members
Carmela Cinquina, *Biology*
Thomas DeMott, *Biology*
Marc Durand, *Chemistry*
Claude Hunsberger, *English*
Margaret Martinez, *Biology*
Stanley Yarosewick, *Physics*

The Pre-Professional Program prepares students for application to health professional schools of medicine, dentistry, veterinary medicine, podiatry, and optometry. It consists of an individualized selection of course work and personal counseling beginning in the freshman year. The program is supervised by a Pre-Professional Committee in conjunction with outside physicians and dentists who serve as advisors to the program. Students with majors other than Chemistry-Biology (H) are required to have two advisors-one from their major field and one from the Pre-Professional Committee.

Because of the intense competition for health professional school admission, only academically talented and highly motivated students should apply to the Pre-Professional Program. Applicants are selected on the basis of their potential for achievement in the program. Students in the program must maintain a minimum 3.0 grade point average and the high standards of performance necessary for health professional school admission.

It is essential for incoming students contemplating a medical career to register with the Pre-Professional Office immediately upon matriculation at the college. Similarly, it is essential for students who at some later time develop an interest in a medical career to register with the Pre-Professional Office.

All West Chester students who wish to apply to health professional school should ask their professors to forward letters of recommendation to the Pre-Professional Committee and *should process their application through the committee.* The Committee will send a composite letter of evaluation to the professional school. *No letters of recommendations should be sent directly to professional schools.*

CONCENTRATION AND CORE REQUIREMENTS FOR PRE-PROFESSIONAL CHEMISTRY-BIOLOGY (H) CURRICULUM

BACHELOR OF SCIENCE—CHEMISTRY- BIOLOGY (H)

1. General Requirements Includes 6 semester hours of English Composition	29 s.h.
2. Biology BIO 110, BIO 348, BIO 561 or CHE 471 BIO 117, BIO 357 BIO 330, BIO 361	26 s.h.
3. Chemistry CHE 103, CRL 103, CHE 104, CRL 104 CHE 231, CHE 232, CRL 232, CHE 321 CHE 345, CRL 345	26 s.h.
4. Concentration Elective, Biology or Chemistry	3 s.h.
5. Mathematics MAT 121L, MAT 162 MAT 161, CSC 141	15 s.h.
6. Physics PHY 101 or 103 PHY 102 or 104	8 s.h.
7. Free Electives	21 s.h.

See also Chemistry

Psychology

Elizabeth H. Eldredge, *Chairperson*

PROFESSORS: Clark, Means, Morse, Porter, J., Sands, Smith

ASSOCIATE PROFESSORS: Cohen, Eldredge, Jackman, Kumar, Moore, Porter, L., Shinehouse, Treadwell

ASSISTANT PROFESSORS: Crawford, Pollak, Shaffer

The psychologist endeavors to apply scientific methods to explain, predict, and in some cases control human behavior. A B.A. degree in psychology prepares the student to understand those variables, such as heredity, learning, and the environment, which shape and change behavior. Careers are possible in clinics, guidance centers, industry, hospitals, schools, and government.

The B.S. in Education program prepares students to teach the social sciences in the secondary schools.

BACHELOR OF ARTS—PSYCHOLOGY

1. General Requirements Students entering after September 1980, see new General Requirements, pages 58-60	44-51 s.h.
2. Foreign Language Requirement, see page 60	0-15 s.h.
3. Social Science Core Requirements, see page 60 Students entering after September 1980 will take Social Science Cognate Requirements. One course in each of the following not chosen for General Requirements: GEO, ECO, PSC, SOC, ANT.*	21 s.h. 9 s.h.

*These requirements are currently being reviewed by the College.

4. Psychology Requirements 33 s.h.
   a. Required Psychology Courses (21 s.h.)
      PSY 245, 246, 354, 356 or 357, 375, 400, 464.
   b. Psychology Electives (12 s.h.)
   c. Speech Requirement 3 s.h.
      Effective for students entering September 1980. One of the following: SPC 101, 104, 109 or 216. To be taken sophomore year or later.
5. Additional Free Electives. 8-23 s.h.

BACHELOR OF SCIENCE IN EDUCATION

COMPREHENSIVE SOCIAL STUDIES: PSYCHOLOGY (concentration)

See description under Comprehensive Social Studies: B.S. in Education, page 193.

Psychology Requirements (15 s.h.)
PSY 245, 354, 356 or 357, 375, 464

MINOR CONCENTRATION IN PSYCHOLOGY

A total of 18 semester hours is required. Two minors in psychology are offered. One is the Individualized Minor: after taking PSY 100, the student will choose 15 additional hours in consultation with the minor advisor. The second is the Minor in Psychological Services for the student interested in employment in the mental health/human services area. Required courses for this minor are PSY 100, 210, 375, 391, 427, and 441.

Either minor may be taken as a concentration by students in the Associate of Arts in Liberal Studies Program. (See page).

COURSE DESCRIPTIONS
PSYCHOLOGY
Symbol: PSY

★ 100 **Introduction to Psychology** (3) Introduction to the scientific study of behavior. The multiple bases of human behavior with emphasis on the learning process. Basic concepts, principles, and methodology. Offered fall, spring and summer.

210 **Developmental Psychology I** (3) A survey of research findings and theoretical issues related to developmental processes from the prenatal phase to senescence. PREREQ: PSY 100. Offered fall and spring.

245 **Research Methods and Statistics I** (3) Experiments on selected problems, with emphasis on techniques in the design and execution of experiments and on the application of elementary statistical techniques to the collection, analysis, and interpretation of data. PREREQ: PSY 100. Offered fall and spring.

246 **Research Methods and Statistics II** (3) Continuation of PSY 245 with emphasis on more advanced experimental designs and statistical techniques. PREREQ: PSY 245. Offered fall and spring.

270 **Psychology of Adjustment** (3) Application of principles of psychology to problems of individual adjustment. Processes of coping used by normal persons in everyday life. PREREQ: PSY 100. Offered fall and spring.

350 **Motivation** (3) A study of drives, motives, and emotions as determinants of behavior. Physiological and social aspects of motivation will be explored with some attention given to pathological factors. PREREQ: PSY 100. Offered fall in alternating years.

354 **Social Psychology** (3) The study of the ways in which the individual is affected by the actual, imagined or implied presence of others. PREREQ: PSY 100. Offered fall and spring.

356 **Study of Personality** (3) An introduction to the dynamics of personality functioning. Topics such as self-esteem, stress, conflict, frustration, and defense will be explored. PREREQ: PSY 100. Offered spring.

357 **Theories of Personality** (3) An advanced course in personality which examines the theories and writings of Freud, Jung, Adler, Fromm, Erikson, Rogers, and other major personality theorists. PREREQ: PSY 100. Offered fall.

361 **Applied Psychology** (3) Basic psychological principles as applied to industry, engineering, and other professions. PREREQ: PSY 100.

362 **History and Systems of Psychology** (3) An integrated overview of the history of psychology as well as the systems, theories and fundamental issues with which psychologists have concerned

★ Approved Distributive Requirements Course.

themselves in the past, recent, and current stages of the science. PREREQ: PSY 100. Offered spring.

363 Psychology of Learning (1-2: one hour lecture, 2 hours lab) Basic laws and theories of learning. Selected laboratory experiments with animal and human subjects illustrating fundamentals of learning. PREREQ: PSY 245. Offered fall.

365 Industrial Psychology (3) A basic course for business majors. Emphasis on theoretical developments in psychology as these relate to the study of people in organizations and industry. Offered fall and spring.

375 Abnormal Psychology (3) The nature and manifestations of normality and abnormality, mental mechanisms and symptoms, psychoneuroses, psychoses, the psychopathic personality and mental deficiency. PREREQ: 6 s.h. in psychology and junior or senior standing. Offered fall and spring.

390 Principles of Counseling and Psychotherapy (3) A review of theoretical assumptions underpinning various approaches to counseling and psychotherapy, with particular reference to comparative outcome data. PREREQ: PSY 357 and 375 or permission of the instructor. Offered spring.

391 Psychological Techniques (3) A survey of a variety of psychological techniques which are applied in the processes of observing, diagnosing, and changing problematic human behavior. PREREQ: PSY 100. Offered fall.

400 Senior Seminar in Psychology (3) Advanced topics in psychology. A written and/or oral presentation describing and analyzing current issues in psychology. Required of all psychology majors. Offered fall and spring.

410 Independent Studies in Psychology (1 to 3) Special research projects, reports, readings in psychology. Open to seniors only. PREREQ: permission of department chairperson. Offered fall and spring.

425 Psychological Testing and Measurement (3) Principles of psychological measurement including standardization, scale transformation, reliability, validity, and item-analysis. Use of tests for the solution of problems in industrial, business, and educational settings. PREREQ: PSY 100. Offered fall and spring.

427 Behavior Modification (3) A survey of the principles and practices employed in inducing behavioral changes in clinic, institution, agency, and school settings. PREREQ: PSY 363 or permission of instructor. Offered spring.

430 Human Sexual Behavior (3) An intensive study of those variables under which human sexual behavior functions. Research from sociological and medical studies is integrated with psychological knowledge. PREREQ: 6 hours in psychology and junior or senior standing. Offered fall and spring.

435 Animal Behavior (3) The evolution and adaptiveness of behavior. Emphasis on physiological, genetic and learning processes underlying animal behavior. PREREQ: PSY 100 or permission of instructor. Offered fall.

441 Field Experience in Psychology I (3) A work-study program in an educational or mental health facility under joint supervision of the instructor and the staff psychologists of the field institution. PREREQ: PSY 425, senior standing and permission of instructor. Offered fall and spring.

442 Field Experience in Psychology II (3) Continuation of PSY 441.

443 Psychology of Group Processes (3) A survey of psychological group processes, tracing the origins and historical development of the major contributing theoretical orientations. PREREQ: PSY 100. Offered fall.

464 Physiological Psychology (3) Anatomical, endocrinological and physiological processes underlying behavior, including motivation, emotion, learning and memory. PREREQ: PSY 100, BIO 100 or 110. Offered fall and spring.

465 Psychology of Women (3) A study of the behavior and experience of women. Biological, cultural, interpersonal and intrapersonal determinants of women's actions, thoughts and feelings will be explored. PREREQ: PSY 100. Offered fall and spring.

470 Sensory and Perceptual Processes (3) Theory, data, and methodology of sensory and perceptual processes. PREREQ: PSY 100. Offered spring in alternating years.

482 Developmental Psychology II—Infancy and Childhood (3) An advanced study of the normal child from conception to puberty. Emphasis on current theoretical issues involved in the effects of early experience and environment. PREREQ: PSY 100. Offered spring odd years.

483 Developmental Psychology III—Adolescence (3) An advanced study of the psychological development of the young person from puberty to adulthood, emphasizing the developmental problems of reaching maturity. PREREQ: PSY 100. Offered fall.

484 Developmental Psychology IV—Adulthood and Aging (3) An advanced study of psychological development during the mature years and senescence. PREREQ: PSY 100. Offered spring, even years.

490 Topical Seminar in Psychology (1-3) Special topics in psychology not covered under existing regularly offered courses. Offered fall or spring.

Reading (See Early Childhood, Elementary Education, and Reading)

Russian Studies

Offered jointly by the Faculty of Arts and Sciences and the Faculty of Professional Studies.

Any student in the college, regardless of his or her area of specialization, may earn transcript recognition and a letter of vertification in Russian Studies after satisfactory completion of 21 semester hours of work, distributed as follows:

RUSSIAN STUDIES	21 semester hours
Required: Either A or B	
A. 1. Russian language (Intermediate level or above)	6 s.h.
2. Russian History	6 s.h.
OR	
B. 1. Russian History	6 s.h.
2. Russian Civilization and Thought	6 s.h.
Electives:	9 s.h.

As advised, from Russian-oriented courses offered by the Departments of Government and Planning, Anthropology/Sociology, Business Administration, Economics, Education, Fine Arts or other departments of WCSC. In track A, one three (3) credit course must be devoted to literature, art history, or music.
For advisement, see Professor Glumac in the Department of Foreign Languages or Professor Swan in the History Department.

A student should maintain a 3.0 average in area-studies courses to be recommended for graduate work in the area-studies concentration.

Social Studies

BACHELOR OF SCIENCE IN EDUCATION

The Commonwealth of Pennsylvania grants a comprehensive social studies certificate entitling the holder to teach any of the social studies in public school. Preparation combines an introduction to all of the social science disciplines with either a concentration in one of them, or an interdisciplinary concentration. For information, and specific course requirements, contact the chairpersons of the departments participating in this program (Anthropology and Sociology; Government and Planning; History; Psychology*.)

*Social Studies Psychology Teaching Certificate may be granted if completed by May, 1983.

COMMON REQUIREMENTS

General Requirements See Page 58-60
Professional Education See Page 104

Students in Comprehensive Social Studies must take six hours in each of seven social sciences, including their concentration. Electives, beyond those in General Requirements, are to be relevant to the certificate. A 2.5 cumulative average in the social sciences and a 2.25 overall average is a prerequisite for student teaching.

A. Comprehensive Social Studies: (discipline concentration)

Twenty-one (21) s.h. in the discipline of student's choice, providing that the academic department is participating in the B.S. concentration. At this time, students may choose from the following disciplines: Anthropology, Government and Planning, History, Psychology* or Sociology. See department of concentration foradvisement.

B. Comprehensive Social Studies: American Cultures. See History Department for advisement.

American Studies Core	24 s.h.
American Studies Electives and Social Science Requirements	9 s.h.

C. Comprehensive Social Studies: World Cultures. Consult with any of the following departments for advisement: Anthropology and Sociology, Government and Planning, or History.

Seminar	3 s.h.
European Tradition	9 s.h.
Non-European Tradition	9 s.h.
Topical and Thematic Approaches	9 s.h.

D. Comprehensive Social Studies: Ethnic Studies. Advisement by History Department

History Courses	15 s.h.
Social Science Electives and Requirements	9 s.h.
Humanities Electives	6 s.h.
Teaching in Urban Schools (EDU 361)	3 s.h.

E. Comprehensive Social Studies: Human Heritages

This involves geographic distribution along with a concentration in a discipline, as in A. Advisement by department of concentration.

Seminar	3 s.h.
European Tradition	6 s.h.
Non-European Tradition	6 s.h.
American Tradition	6 s.h.
Thematic, topical courses	6 s.h.

*Social Studies Psychology Teaching Certificate may be granted if completed by May, 1983.

COURSE DESCRIPTIONS
COMPREHENSIVE SOCIAL STUDIES

SSC 390 Teaching Behavioral Sciences in Secondary Schools (3) Preparation for teaching secondary social studies, especially behavioral sciences and most particularly political science. Focus is on achievement of behavioral objectives based on a knowledge of learning theory applied to curriculum, methods, materials and evaluation. PREREQ: EDP 250.

Social Work

John A. Main, *Chairperson*

PROFESSOR: Yeakel

ASSOCIATE PROFESSORS: Bartlett, Main

ASSISTANT PROFESSORS: Hodgins, McCutcheon, McCullough

The Social Work Program combines a liberal arts foundation with the analytical framework of the social and behavioral sciences and the principles and methods associated with the professional practice of social work. The student applies theory to practice in the varied field experiences of the sophomore, junior, and senior years. The ultimate goal of this program is to have the student develop a basic competency in generic social work practice.

The Social Work Program is accredited as a professional degree in social work by the Council on Social Work Education.

Admission to the program is limited, because of the limited number of approved field placement agencies. Those students interested in majoring in Social Work should take Introduction to Social Welfare I and II (SWO 200 and SWO 201) during the fall and spring semesters of their sophomore year. They are advised to apply for admission at the end of the fall semester of their sophomore year. Applications for admission to the Social Work Program will be reviewed by the Admissions and Standards Committee of the Department of Social Work during the spring semester of the applicant's sophomore year. To be eligible for consideration for admission the student must have achieved at least an average of 2.5 in social science courses and a B in Introduction to Social Welfare (SWO 200).

TRANSFER STUDENTS FROM OTHER COLLEGES

Those students transferring from other colleges as sophomores or juniors will be directed by the Admissions Office of the college to make an appointment with an appropriate faculty member of the Department of Social Work to discuss their status in regard to admission to the program. A limited number of openings are held for transfer students with A.A. Degrees in Social Work or Human Services. Transfer students with no academic background in the helping professions will be asked to enter the program through the admissions procedure described above.

SOCIAL WORK FIELD PLACEMENTS

Chester County Board of Assistance
Chester County Children's Services
Chester County Farms
Crozer-Chester Medical Center
Delaware County Child Care Services
Delaware County Day Care Association
Delaware County Intermediate Unit
Delaware County Juvenile Court
Family Service-Mental Health Centers of Chester County
First Step of Chester County
Mental Health and Mental Retardation Board of Chester County, Base Service Unit
Montgomery County Children's Aid Society
Norristown State Hospital
Traveler's Aid Society
Victim-Witness Assistance Agency
Voyage House
West Philadelphia Consortium
Wilmington School District

BACHELOR OF ARTS — SOCIAL WORK

1. General Requirements, see pages 58-60	51 s.h.
2. Foreign Language Requirements (second half of the intermediate year)	3 s.h.

3. Social Science Cognate Electives* 9 s.h.
4. Social Work Concentration: 45 s.h.
   SWO 300, 320-321, 350-351, 420-421, 430, 450-451, 495-496.
5. Cognates (Psycho-Social Foundation) 12 s.h.
   Select four courses, under advisement
6. Electives 9 s.h.

Social work majors should choose with their advisor an interdisciplinary elective program geared to their learning needs and professional interests.

*Consult with Department. These are currently being reviewed by the College.

COURSE DESCRIPTIONS
SOCIAL WORK
Symbol: SWO

PRIMARILY FOR SOPHOMORES

200 Introduction to Social Welfare I (3) Current social problems and the influence of societal values upon their definition and upon the structures devised to meet them. Two hours per week of volunteer experience in a social agency. Fall.

201 Introduction to Social Welfare II (3) The history of social welfare in the United States, and an overview of major fields of social work practice with emphasis upon legislation and policy formulation. Spring.

B.A. COURSES FOR SOCIAL WORK MAJORS AND OTHER UPPERCLASSMEN

300 Social Welfare Systems I (3) Introduction to selected items in systems analysis, emphasizing application to understanding the institutional and organizational framework of human behavior. Fall.

320 Principles and Methods of Social Work Practice I (3) A systems approach to the use of generic principles and methods of social work practice. Fall.

321 Principles and Methods of Social Work Practice II (3) A continuation of SWO 320. Spring.

350 Psycho-Social Foundations of Human Behavior I (3) Life cycle of individual development in a framework of interrelationships of self-concept, reference groups, social reality, and social role. Fall.

351 Psycho-Social Foundations of Human Behavior (3) Continuation of SWO 350. Spring.

375 Field Placement (3) Junior year field experience for the social work major. Spring.

COURSES FOR SOCIAL WORK MAJORS ONLY

410 Independent Studies in Social Work (1 to 3) Special research projects or practices in social work. Juniors and seniors only. PREREQ: permission of department chairperson. Fall, spring, summer.

431 Methods of Social Inquiry (3) Fundamentals of problem identification, research design, sampling, observation, data collection and reduction, and non-statistical analysis. Spring.

450-451 Field Experience I-II (6) (6) Supervised work experience in social agency. Seniors only. Fall, spring.

495 Senior Seminar in Social Work (3) Integration of field and classroom experiences into a professional framework for the social work helping process. Fall.

496 Social Work Process Seminar (3) Seminar on social work process designed to relate to the second semester field experience. Fall.

ADVANCED UNDERGRADUATE AND GRADUATE COURSES

520 Theory for Social Work Practice (3)

521 Social Work with Women in Transition (3)

522 Family Therapy in Social Work (3)

542 Interviewing and Counseling the Offender I (3).

Sociology (see Anthropology and Sociology)

Special Education

Deborah A. Nickles, *Chairperson*
PROFESSOR: Freeman
ASSOCIATE PROFESSOR: Zlotowski
ASSISTANT PROFESSORS: Finkel, Nickles, Rubin

Degree Program to teach the Mentally and/or Physically Handicapped.

The object of the program in special education is to provide relevant and comprehensive training for those seeking certification in the teaching of the mentally and physically handicapped.

The special education curriculum is designed to produce a teacher who is clinically oriented with a foundation in normal growth and development and educational practices. The person will have been exposed to children between the ages of 3 to 21 with mental and physical handicapping conditions ranging from mild to severe but is not necessarily equally proficient in all areas. Personal characteristics essential for adequate preparation and performance will include a minimal level of flexibility, receptivity, intellectual ability, physical stamina, and a focus on professional and realistic expectations.

BACHELOR OF SCIENCE IN SPECIAL EDUCATION

1. General Requirements, see pages 58-60 — 51 s.h.
   Introduction to Psychology is required.
2. Professional Education — 27 s.h.
   Required: EDF 100, EDP 250, EDM 300, EDP 351, EDX 306, EDA 415.
3. Special Education — 24 s.h.
   Required: EDA 101, EDA 102, EDA 220, EDA 301, EDA 302, EDA 350, EDA 360, EDA 403.
4. Electives — 9 s.h.
   Three courses are to be selected from the following four areas:
   - A course in music education methods
   - A course in teaching art
   - A course in children's literature
   - A course in teaching hygiene
5. Required Supporting Courses — 24 s.h.
   PED 252, EDE 251, EDS 249, EDE 315, EDR 323, EDE 330, SPP 340, MAT 357

Minor Program of Study: Developmental Disabilities

Current trends, enforced by recent litigation, have increased the need for a general understanding of the handicapped individual in our culture. This program permits students preparing to enter professions with high probability of contact with exceptional individuals, the opportunity to broaden their training in a manner currently not available.

The program is designed to introduce students to exceptionalities through course work and field practicums. A life programming approach is used.

MINOR: DEVELOPMENTAL DISABILITIES

1. Developmental Disabilities — 18 s.h.
   Required: EDA 241, EDA 220, EDA 301 or EDA 302, EDA 350, EDA 403
2. Free Elective — 3 s.h.
   Selected with approval of Special Education advisor

COURSE DESCRIPTIONS
SPECIAL EDUCATION
Symbol: EDA

100 Mainstreaming for Exceptional Students (1) This course is designed to acquaint the classroom teacher with the prospective exceptional students who may be spending some portion of the day in the regular setting. Current regulations covering those placements will be reviewed. Emphasis will be placed on adequately meeting special educational needs.

101 Psychology of the Mentally Handicapped (3) An introduction to the range of exceptional children from an historical perspective with an in depth study of mental retardation and emotional disturbance. PREREQ: PSY 100.

102 Psychology of the Physically Handicapped (3) An in depth study of the physically handicapped and the learning disabled/brain damaged with an overview of psychological and societal implications and multi-handicapping conditions. PREREQ: PSY 100.

220 Behavior Management (3) An exploration of current practices in management of behavior with emphasis on teacher delivered systems. PREREQ: 101 or 102.

241 Psychology of Exceptional Children (3) Psychology of children who are mentally gifted; or retarded or who have vision, hearing, speech, or orthopedic handicaps, or emotional, or social problems. PREREQ: PSY 100.

245 Introduction to Learning Disabilities (3) Identification, education, and treatment of the child labeled as "learning disabled." Emphasis given to the specific learning and emotional needs such a child presents. An overview of the historical development and current status of this field is included.

301 Field Experience and Seminar: Mentally Handicapped (3) A weekly 3 hour practicum and 1 1/2 hour seminar devoted to field experience with mentally handicapped students and class analysis of observed needs and methods of teacher responses. PREREQ: EDE 101

302 Field Experience and Seminar: Physically Handicapped (3) A weekly 3 hour practicum and 1 1/2 hour seminar devoted to field experience with phsyically handicapped students and class analysis of observed needs and adjustment factors: PREREQ: EDE 102

330 The Academically Superior Child (3) The gifted child and means of providing an effective educational program for him.

344 Problems in Special Education (3) Analysis of problems involving school personnel, parents, community agencies, and the cultural background of students in special education. PREREQ: EDA 350.

350 Life Curriculum and Methods: Handicapped Learners (3) Preparation to assist handicapped students to achieve adaptive levels of behavior through the view of total life preparation. PREREQ: 101, 102.

360 Diagnostic and Prescriptive Teaching (3) An introduction to diagnostic procedures and the conversion of these findings into relevant educational plans and instructional strategies. PREREQ: 350.

403 Senior Seminar: Current Trends (3) Exploration of emerging concepts, problems, and trends in a seminar format with emphasis on individual preparations. PREREQ: 360.

410 Independent Study (1-3) Special topics or projects initiated by the student that will enable her/him to do extensive and intensive study in an area of special education which will sharply increase her/his knowledge of special education. PREREQ: permission of chairperson.

415 Student Teaching and Direction of Activities (Special Education) Including Practicum (12) Participation in teaching and all other activities within the student teaching role related to the teacher's work. Students meet once a week in a practicum session. PREREQ: 96 semester hours including all professional education courses and all specialized preparation courses.

416 Student Teaching and Direction of Activities Including Practicum: Emotionally Disturbed (6) Participation in teaching and all other activities within the student teaching role related to the teacher's work. PREREQ: 96 semester hours including all professional education courses and all specialized preparation courses.

417 Student Teaching and Direction of Activities Including Practicum: Learning Disabled (6) See 416 for description and requirements.

418 Student Teaching and Direction of Activities Including Practicum: Mentallly Retarded (6) See 416 for description and requirements.

419 Student Teaching and Direction of Activities Including Practicum: Physically Handicapped (6) See 416 for description and requirements.

443 Psychology of the Mentally Retarded (3) Etiology, diagnosis, and various treatment approaches to the mentally retarded. PREREQ: EDA 241.

450 Mental Health/Mental Retardation Practicum (3) Provides opportunity to engage in field work in the mental health/mental retardation field. Field and class work adapted to individual interests.

Speech Communication and Theatre

William M. Morehouse, *Chairperson*

PROFESSORS: Martel, Morehouse

ASSOCIATE PROFESSORS: Berkowitz, Casagrande, Hashimoto, Keefe, Klinzing, Meiswinkel

ASSISTANT PROFESSOR: Hall

INSTRUCTORS: Abbott, Bytnar, Reed, Saddoris

The aims of the Department of Speech Communication and Theatre are to develop the students into an independent, responsible, and effective citizens by enabling them to grasp the nature and scope of communication and performing arts. The department's degree programs are designed to train teachers of communications, theatre craftsmen, and communications professionals.

DEPARTMENT RELATED STUDENT ACTIVITIES

Little Theatre, The Forensic Society, and the West Chester College Musical Theatre Company are student orgnizations which involve department faculty and resources. The activities are open to all students. For more information see: STUDENT AFFAIRS.

DEPARTMENT INTERNSHIPS

Internship experiences are provided for students by the department in work related to vocational and academic interests. Students have been placed in offices of congressmen, radio and television stations, and local industries. Students and their internship placements are screened to assure mutual satisfaction for all parties involved. For details, students should check with the department's internship coordinator.

DEPARTMENT MINORS OFFERED IN:

1. **Speech Communication**

SPC 103	Introduction to Rhetorical Heritage or THA 101 Introduction to Theatre	3 s.h.
SPC 104	Dyadic Communication	3 s.h.
SPC 109	Public Communication	3 s.h.
SPC 117	Introduction to Radio-TV-Film	3 s.h.
SPC 209	Communication Theory	3 s.h.
SPC 216	Small Group Communication	3 s.h.
	Total	18 s.h.

(This minor may be taken as a concentration in the A.A. program).

*2. **Theatre**

THA 101	Introduction to Theatre	3 s.h.
THA 103	Beginning Acting	3 s.h.
THA 215 or 216	History of Costume and Design (I or II)	3 s.h.
THA 209	State Makeup	3 s.h.
THA 104	Statecraft	3 s.h.
THA 301	Directing	3 s.h.
	Total	18 s.h.

(This minor may be taken as a concentration in the A.A. program).

BACHELOR OF ARTS PROGRAMS

The department offers two bachelor of arts degree programs. Beyond the 51 hours in general requirements, 15 hours of humanities core, and a demonstrated proficiency in a foreign language through the Intermediate II level or culture option, the degree in speech communication and the degree in theatre arts require areas of concentrated study.

1. **Bachelor of Arts in Speech Communication**

A. Requirements:*		
General Requirements (See pages 58 through 60)		50-60 s.h.
(Includes Foreign Language/Culture Requirements)		
Humanities Core**		15 s.h.
Speech Communication Concentration		33 s.h.
Applied area		30 s.h.
B. Electives (included above—up to 42 s.h.)		
	Total	128-138 s.h.

2. **Bachelor of Arts in Theatre Arts**

A. Requirements:*		
General Requirements (See pages 58 through 60)		50-60 s.h.
(Includes Foreign Language/Culture Requirements		
Humanities Core**		15 s.h.
Theatre Concentration		48 s.h.
B. Electives		15 s.h.
	Total	128-138 s.h.

*Subject to the approval of the Council on Academic Policies and Curriculum.

BACHELOR OF SCIENCE IN EDUCATION—COMMUNICATIONS

This program is designed to meet Pennsylvania standards for certification of teachers of communication. **Recipients of this certificate are qualified to teach English, speech, and theatre.**

A. Requirements:*		
General Requirements		50 s.h.
Professional Education Requirements		30 s.h.
Communciation Core		27 s.h.
Areas of Concentration		30-33 s.h.
	Total	137-140 s.h.

*For specific course requirements, request a Majors Student Handbook from the department. The Humanities Core requirement is currently being reviewed by the College.

B. Areas of concentration include Speech, Theatre, Writing, Language and Linguistics, Literature, Non-print Media.

Note: The **Communications Core** is common to all of the areas of concentration and is the basis for triple teacher certification in English, speech and drama.

COURSE DESCRIPTIONS
SPEECH COMMUNCIATION
Symbol: SPC

101 Speech Fundamentals: Interpersonal Communication (3) Development of competencies for purposeful speech communication. Awareness of the effects of language on communications. Recognition of the types and purposes of a selected number of communications. Grasp of the role of evidence and organization in spoken messages.

102 (Also THA 102) Oral Interpretation (3) See THA 102 for description.

103 Introduction to Rhetorical Heritage (3) The development of critical communication variables evolved from early Sophistic Greece through modern Empiricism.

104 Dyadic Communication (3) One on one communication to give the student a basic understanding of the processes and experiences of the most basic type of human communication.

105 Voice Dynamics (3) Training in the creative-esthetic production of speech; includes respiration, phonation, articulation, and resonation.

106 (also SPP 106) Introduction to Phonetics (3) See SPP 106 for description.

107 Competency Base Effective Speech for the Teacher (3) Course designed to help education majors improve their own speech habits and to provide oral experiences directly related to classroom teaching, administrative duties, and professional service.

109 Public Communciation (3) Development of skills necessary to understand the theory of and proficiency in communication as a problem-solving tool in the community. Special emphasis is on the student's performance as a sender and receiver of messages directed at social action.

117 Introduction to Radio-TV-Film (3) A survey course designed to identify, analyze, and evaluate the pragmatic, persuasive, creative, and technical dimensions of mass media.

203 Argumentation and Debate (3) Functions and principles of argumentation and debate, including analysis, evidence, reasoning, and refutation. Class debating on vital issues.

209 Communication Theory (3) Examines the theoretical and practical implications of basic interpersonal and mass communication theories.

210 Photo Communication I* (3) A basic course in the use of creative camera techniques available to the beginning photographer for the production of quality slides.

216 Small Group Communication (3) Introduction to and practice in the structured small group. Emphasis on preparation for, analysis of, and participation in problem-solution oriented groups.

217 Directing and Producing the Documentary Television Programs (3) Planning and producing the non-dramatic television production.

220 Multi-Media Communication* (3) The practical application of communication theory through experiences in photography and multi-media productions. The creative potentials of combining sound and various photographic elements will be explored with special attention given to photo journalism as used in advertising, public relations, theatre and related mass communication studies.

221 Photo Communication II* (3) This course will give the student a chance to develop a personal photographic communication style. The student will be encouraged to explore and express his/her personal perceptions through photography.

230 Business and Professional Speech Communication (3) Practice in effective speaking and listening; reports and sales presentation; policy speeches, conference leadership techniques, group dynamics, speaking; interpersonal communication in the business and professional setting.

250 Listening: Verbal and Nonverbal Perceptions (3) A study of the verbal and sensory messages we are constantly receiving. Listening as a theory and behavior; body language and the uses of space, time, touch, objects and color inherent in the sensory messages we receive.

301 Psychology of Speech Communication (3) Communication as a psychological phenomenon. Emotional and mental process in human communication. Function of the senses, motivation, and personality.

303 Modern Trends in Argument (3) Study of the new thinking in argumentation theory. De-emphasizes classic validity and centers on the building of arguments which are acceptable to the hearers. Work on Stephen Toulmin and Chaim Perelman is focus.

*Subject to the approval of the Council on Academic Policies and Curriculum

309 Advanced Pupil Speaking (3) Designing personal strategies, adapting delivery to large audiences, developing oral use of language and speaking to live or simulated community groups.

310 Field Experiences in Photographic Communication* (3) This course in slide photography will build on the students' previous experiences in photography. The student will develop the technical, visual and photo communication skills necessary to explore, record and interpret his/her surroundings through photographic essays and related photo communication projects. These skills will be achieved through field experiences and classroom instruction.

316 Discussion: Non-Structured Group (3) A modified training group in which the group members are the focus of all interaction.

317 Directing and Producing the Dramatic Television Program (3) Planning the program. Preparing the shooting script. Practice in rehearsing with actors and cameras.

318 Forensics (3) Study in the philosophy and practice of forensics. Initiating, developing, and administrating a forensic program. Coaching and judging debate and individual events.

399 Directed Studies in Speech Communication (1-3) Research, creative projects, reports, reading in speech communication. Application must be made to advisors by students one semester in advance of registration. PREREQ: approval of department chairperson. Open to juniors and seniors only.

400 Internship in Speech Communication (3-6-9-12-15) This course provides a structured and supervised work experience in communication. Credits earned are based on amount of time spent on the job. Students must apply to the department internship coordinator and receive approval of department internship faculty committee to be admitted.

401 Organizational Communication (3) An in-depth analysis of the dynamic process of communication as it occurs within organizational networks.

402 Teaching Communications (3) Theory and practice in teaching junior and senior high school communication and drama courses and in directing co-curricular programs in junior and senior high school.

403 Persuasion (3) Current theories of attitude and attitude change. Practice in speaking to modify behavior through appeals to the drives and motives on the listener. PREREQ: SPC 101 or consent of instructor.

409 Intercultural Communication (3) A study into factors which contribute to communication breakdowns between diverse cultures and between fragmented segments within the same society.

415 (also LIN 415) General Semantics (3) Study of the relativistic view of language developed by Alfred Korzybski. Emphasis on language manipulation; its effect on individual behavior; and its place in interpersonal communication.

499 Communication Seminar (3) Intensive examination of a selected area of study in the field of Speech Communication. Topics will be announced in advance.

COURSE DESCRIPTIONS
THEATRE
Symbol: THA

100 Theatre Practice (1-3) Laboratory experience in technical aspects of play production. Open to all students.

101 Introduction to the Theatre (3) Survey of theatre as a humanity by exploring development and use of forms, styles, and elements of drama. The study includes historical periods, musicals, and Black Theatre.

102 (also SPC 102) Oral Interpretation I (3) Theory and practice of oral presentation of various types of literature to an audience.

103 Beginning Acting (3) Theory and practice in creating the character through development of the actor's physical and emotional responses. No previous experience is necessary and the course is open to non-majors.

104 Stagecraft (3) Planning, construction, painting, rigging, and shifting of scenery. Management of all operations backstage. Laboratory required.

113 Stage Movement (3) An introduction to movement for the undergraduate actor to include actor-body emphasis concentration exercises, character development, nonverbal communication, and the integration of voice and body.

202 Oral Interpretation II (3) Advanced work in oral presentation of literature with emphasis on the theory and technique of readers theatre. PREREQ: THA 102.

203 Intermediate Acting (3) Theory and practice in developing actor's skills; bodily movement, character interpretation, concentration, etc. This is a beginning course for students with previous experience.

206 Theatre Production (3) Selection of plays suitable for elementary schools and junior and senior high schools. Techniques for effective minimal staging.

207 Children's Theatre (3) Production of children's theatre for stage and television. Course

elements will include: script analysis and production values, publicity and tour preparation. Students enrolled in the course will create a complete production.

209 Stage Makeup (3) Theory and practice in design and application of makeup for the stage.

210 Creative Dramatics (3) Theory and practice in creative techniques of expression and dramatic forms to be used as a teaching and recreational device for children and adults.

215 History of Costume and Design I (3) The history of European costume from Greek to Elizabethan. Students are required to design costumes for periods studied.

216 History of Costume and Design II (3) The history of European and American costume from the 17th century to the present day. Students are required to design costumes for each of the periods studied. THA 215 is not a prerequisite.

218 History of the Theatre to 16th Century (3) Development of the theatre from primitive times through the Shakespearean period. Analysis of theatrical production as indications of the life style of each historical period.

219 History of the Theatre, 16th Century to Present (3) Development of theatre from Shakespeare to present. Analysis of theatrical productions as indications of the life style of each historical period.

220 History and Aesthetics of the Oriental Theatre (3) Impact of oriental theatrical traditions on Western thought and art. Oriental integration of form and content, especially in the theatres of India, China, and Japan.

301 Directing (3) Theory and practice in play direction with emphasis on play selection, script preparation, casting, blocking, and rehearsing. PREREQ: THA 103 or 203 and THA 104 or 206.

303 Advanced Acting (3) Improvision, modern and period acting styles. Acting projects presented and defended before an invited audience. One hour of lab. PREREQ: THA 203.

304 Scenic and Lighting Design (3) Principles and practice in designing of appropriate and expressive milieu for the play. Perspective sketches, working drawings, lighting plots, and models. Historical development of stage scenery and lighting.

309 Advanced Makeup (3) Theory, development, and application of theatrical makeup according to: the play, its period, the style of production, the actor, and the character. Students must have previous knowledge of the basic two and three dimensional makeup devices. PREREQ: THA 209.

311 The Psyche of Woman in Modern Drama (3) If theatre mirrors the times, there must be some reason for the preponderance of neurotic and domineering women found in dramatic literature. This course will explore the psychological and sociological reasons for this character in modern drama.

399 Directed Studies in Theatre (1-3) Research, creative projects, reports, readings in theatre. Application must be made to advisors by students one semester in advance or registration. PREREQ: approval of department chairperson. Open to juniors and seniors only.

400 Internship in Theatre (3-6-9-12-15) This course provides a structured and supervised work experience in theatre. Credits earned are based on amount of time spent on the job. Students must apply to department intern coordinator and receive approval of department internship faculty committee to be admitted.

401 Advanced Directing (3) Directing as a creative aspect of play production. Problems in directing actors in varied styles and forms of plays. PREREQ: THA 301.

404 Advanced Scenic and Lighting Design (3) Analysis of excellent scene designs of the past. Practice in maximizing the visual impact of stage scenery and lighting. Design projects for selected visually challenging plays. Students design for both student-directed and major productions on campus. One hour of lab. PREREQ: THA 304.

405 Advanced Costume Design and Construction (3) This course emphasizes the unrealistic and stylized approaches for costume design and construction. PREREQ: THA 215 or 216 and/or permission of instructor.

Undeclared Major Program

Louis A. Casciato, *Director*

Gerald B. Cartwright, *Transfer Credentials Analyst*

FACULTY ACADEMIC ADVISORS: Gleockler, Harris, Riley

The Undeclared Major Program is offered to West Chester students as a way to explore fields of interest before entering a degree program. During this period, of no

more than three full semesters, the student schedules courses which fulfill the general education requirements. Additional courses may be selected in a wide range of disciplines. The program is administered by the Academic Advisement Center located in the Learning Research Center. All advising and career exploration occurs in the center.

Students should understand that certain programs may require prerequisites for further study. Completion of such prerequisites, if not undertaken during the period of study as an undeclared major, may prolong college attendance accordingly. This program is not for students who have chosen their program (major) and have not been accepted by the college in that field.

Certain major programs have limited resources which may limit the number of students in the program at any one time. A student may transfer into a program from undeclared status only if: 1. there is a vacancy in the desired program; 2. the head of that program approves; and 3. a formal approved change of major form has been filed in the Office of the Registrar. Students should make inquiry about such vacancies as early as possible during their first year of study.

Women's Studies

Arlene Rengert, Anne Sessa, *Coordinators*

The Women's Studies Program consists of an interrelated group of courses offered across a wide spectrum of disciplines by individual departments. The program is under the supervision of the Women's Studies Steering Committee which decides what courses are acceptable to the program. This program is envisaged as an enrichment to liberal education rather than a pre-professional study, athough the social transformation that is taking place both in society and in intellectual life is making study in this area a professional asset.

The aim of the program is to integrate the distaff experience into the curriculum and to encourage inquiry into previously neglected areas such as women's history and prehistory, women writers and artists, female psychology, and woman's place in society.

Women's Studies Courses

Oral History: (HIS 345)
Women in Modern Europe (HIS 320)
Women in America (HIS 351)
Psychology of Women (PSY 490)
Health Issues of Women (NSG/HEA 109)
Women in Art (ART 419)
Women and Politics (PSC 301)
Senior Project (HUM 367)
Women in Contemporary Society (HUM 360)
Woman in Western Literature (HUM 361)
Women in Modern Fiction (LIT 308)
The Psyche of Woman in Modern Drama (THA 311)
Feminist Poetry (LIT 274)
Women and the Law (PSC 302)
Women and Men in French Literature (FRE 409)

These courses are open to all students as free electives under general requirements. With permission of their departments, they may also be taken as electives within the

student's program. A woman's studies minor* consists of 18 credit hours, no more than 9 of which may be taken in a single department, plus a final 2 credit individualized project. Transcript recognition will be awarded upon its completion.

Descriptions of humanities courses in women's studies appear below. See departmental listings for all other courses.

*This minor may be taken as a concentration by students in the A.A. program.

COURSE DESCRIPTIONS
WOMEN'S STUDIES
Symbol: HUM

360 Women in Contemporary Society (3) An interdisciplinary course designed to enable students to analyze various kinds of statements on woman, to question the implications of changing cultural patterns, and to sample, firsthand, efforts for change. P/F option.

361 Woman in Western Literature (3) An inquiry reaching back into classical antiquity for some prototypes of woman in the literature of the West. Readings from Aeschylus, Sophocles, Aristophanes, Euripides, Ovid, Dante, Petrarch, Shakespeare, Moliere, Austen, Flaubert, James, Tolstoy, Shaw, Cather, Giraudoux, others.

362 Women in Modern Fiction (3) Short fiction selected from the works of such modern women writers as Lessing, Drabble, Nin, and Morrison.

367 Senior Project (2) Preparation of research in the area of Women's Studies and the student's major discipline. Supervision includes exercises in method and bibliography.

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EDWARD N. NORRIS (1958) *Coordinator of Graduate Studies; Professor of Physical Education*
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DOROTHY R. NOWACK (1979) *Associate Professor of Health*
B.S., Wheaton College; R.N., Swedish Covenant School of Nursing; M.Ed., Lehigh University; Ph.D., University of Maryland

ROBERT P. NYE (1968) *Professor of Health*
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MARY ANN O'CONNELL (1970) *Chairperson, Department of Educational Services; Instructor*
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BERNARD S. OLDSEY (1969) *Professor of English*
B.A., M.A., Ph.D., Pennsylvania State University

WILLIAM R. OVERLEASE (1963) *Professor of Biology*
B.S., B.S.F., M.S., Ph.D., Michigan State University

REYNOLD D. PAGANELLI (1967) *Associate Professor of Secondary Education and Educational Psychology*
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CHARLES W. PAGANO (1967) *Assistant Professor of Physical Education*
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WILLIE E. PAGE, JR. (1967) *Associate Professor of English*
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PRAXITELES PANDEL (1972) *Associate Professor of Keyboard Music*
B.Mus., M.S., The Juilliard School

SUSAN B. PARKINSON (1968) *Associate Professor of Physical Education*
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ROBERT E. PENNINGTON (1966) *Professor of Keyboard Music*
B.Mus., M.Mus., Mus.D., Northwestern University

ERMINIO J. PETA (1967) *Professor of Early Childhood, Elementary Education, and Reading*
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AMALIA T. PETERS (1969) *Assistant Professor of Foreign Languages*
Institute of Juan Ramon Fernandez (Argentina); M.Ed., West Chester State College; M.A., University of Pennsylvania

ERNEST L. PETERS (1969) *Director, Adult and Continuing Education; Professor, Educational Services*
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WILLIAM B. PETERS (1973) *Associate Professor of History*
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FRANK E. PETERSON (1962) *Associate Professor of Speech Pathology and Audiology*
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SHIRLEY T. PETHES (1968) *Associate Professor of Keyboard Music*
A.R.C.T., Royal Conservatory of Music of Toronto; Artist Diploma, University of Toronto; M.Mus., Indiana University

RUTH B. PETKOFSKY (1968) *Associate Professor of Early Childhood, Elementary Education, and Reading*
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FREDERICK C. PFLIEGER (1961) *Professor of Music History and Literature*
B.S., West Chester State College; M.Mus., Ph.D., West Virginia University

THOMAS W. PLATT (1968) *Professor of Philosophy*
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EDWARD I. POLLAK (1977) *Assistant Professor of Psychology*
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JACK PORTER (1968) *Professor of Psychology*
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LOUIS H. PORTER (1974) *Associate Professor of Psychology*
B.A., Ohio University; M.A., Ph.D., Howard University

WILLIAM G. PRATER (1969) *Associate Professor of English*
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SANDRA F. PRITCHARD (1967) *Director of Conferences, Seminars, Institutes, and Workshops; Assistant Professor, Educational Services*
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ANGELO PUIG (1979) *Psychologist, Counseling Center; Assistant Professor*
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WILLIAM J. RAHN (1965) *Associate Professor of Counselor Education*
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WILLIAM J. RAMPON (1967) *Associate Professor of Geography*
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WILLIAM J. RARICK (1968) *Assistant Professor of Art*
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JUDITH D. RAY (1978) *Assistant Professor of Physical Education*
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GEORGE F. REED (1966) *Professor of Earth Sciences*
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N. RUTH REED (1953) *Associate Professor of Health*
B.S., East Stroudsburg State College; M.Ed., Pennsylvania State University

THOMAS G. REED (1967) *Instructor of Communication and Theatre*
B.S., West Chester State College; Ph.D., Union of Experimental Colleges and Universities

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FRANCIS J. REYNOLDS (1961) *Professor of Chemistry*
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LESLIE E. RICE (1980) *Instructor of Nursing*
B.S.N., M.S.N., University of Pennsylvania

RUSSELL K. RICKERT (1956) *Professor of Physics*
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DONN C. RILEY (1966) *Professor of History*
A.B., M.A., Ph.D., St. Louis University

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STANLEY RIUKAS (1968) *Professor of Philosophy*
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ALFRED D. ROBERTS (1959) *Professor of Foreign Languages*
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JOHN R. ROBILETTE (1979) *Assistant Professor of Keyboard Music*
B.M., Cornell College; M.F.A., University of California at Los Angeles; Certif., Ecole Normale de Musique de Paris

RONALD F. ROMIG (1967) *Professor of Biology*
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HARRISON C. ROPER (1969) *Associate Professor of Instrumental Music*
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BHIM SANDHU (1978) *Assistant Professor of Political Science*
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Propedeutique de Mathematique, Maitrise de Mathematique, D.E.S., University of Paris; M.A., Ph.D., University of Pennsylvania

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NEIL A. SERPICO (1967) *Professor of Physical Education*
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JOHN C. SHEA (1967) *Professor of Political Science*
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JANE E. SHEPPARD (1953) *Associate Professor of Vocal and Choral Music*
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ROBERT R. SHINEHOUSE (1966) *Associate Professor of Psychology*
B.S., Ursinus College; M.A., Temple University

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CARL M. SMITH (1971) *Assistant Professor of Accounting*
B.B.A., M.B.A., Temple University; C.P.A., Commonwealth of Pennsylvania

EDWARD D. SMITH (1972) *Professor of Psychology*
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ELIZABETH SMITH (1967) *Associate Professor of English*
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LIDA NELSON SMITH (1966) *Assistant Professor of Physical Education*
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H. LEE SOUTHALL (1967) *Associate Professor of Instrumental Music*
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THOMAS W. SPIERLING (1972) *Chairperson and Director of Counseling Center; Associate Professor*
B.A., M.A., Ph.D., Michigan State University

CHARLES A. SPRENKLE (1959) *Professor of Keyboard Music*
B.S., Johns Hopkins University; B.Mus., M.Mus., D.Mus.A., Peabody Conservatory of Music

RUTH S. STANLEY (1959) *Assistant Professor of Mathematics*
B.S., M.A., University of Oklahoma

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B.A., M.A., Temple University

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JOHN R. STEINMETZ (1965) *Associate Professor of Health*
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B.A., M.A., Indiana University of Pennsylvania

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B.S., Bloomsburg State College; M.A., Ph.D., Bowling Green University

PAUL STOLLER (1980) *Assistant Professor of Anthropology*
B.A., University of Pittsburgh; M.S., Georgetown University; Ph.D., University of Texas at Austin

GORDON R. STORHOLM (1980) *Professor of Business Administration*
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RICHARD L. STRAYER (1956) *Coordinator, School of Education; Director, Educational Media Services; Professor, Educational Services*
B.S., West Chester State College; M.Ed., University of Delaware; Ed.D., Temple University

PAUL A. STREVELER (1970) *Professor of Philosophy*
B.A., St. John's University (Minnesota); Ph.D., University of Wisconsin

C. WAYNE STRINGER (1971) *Professor of Music Education*
B.S., Ohio State University; M.A., Ed.D., Columbia University; Diploma in Kodaly, Eztergom, Hungary

FREDERICK R. STRUCKMEYER (1966) *Professor of Philosophy*
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CHARLES H. STUART (1968) *Acting Director of Academic Development; Professor of History*
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ELENA F. STUART (1977) *Instructor of Speech Pathology and Audiology*
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B.S., M.S., University of Pennsylvania; D.Ed., The Pennsylvania State University

ANN M. SWOPE (1976) *Assistant Professor of Nursing*
B.S., University of Pennsylvania; M.P.H., Johns Hopkins University

PATRICK J.M. SYLVESTER (1968) *Professor of Economics*
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JOHN C. TACHOVSKY (1970) *Associate Professor of Geography*
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JOSEPH M. THORSON (1968) *Professor of Business Administration*
L.L.M., University of Lwow (U.S.S.R.); M.A., Seton Hall University; Ph.D., Indiana University

DAVID G. THURBON (1963) *Assistant Professor of English*
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WILLIAM TOROP (1971) *Director of Academic Services and Special Assistant to the Provost; Professor of Chemistry*
A.B., M.S., Ed.D., University of Pennsylvania

THOMAS TREADWELL (1968) *Associate Professor of Psychology*
B.A., Morris Harvey College; M.S., University of Bridgeport; Moreno Institute, New York; Temple University (certified psychodramatist)

JOHN N. TREZISE (1969) *Assistant Chairperson, Department of Physical Education; Associate Professor*
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MILAN TRNKA (1962) *Assistant Professor of Physical Education*
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B.M., St. Olaf College; M.A., Indiana University; Ph.D., University of North Carolina

JACQUES C. VOOIS (1969) *Associate Professor of Keyboard Music*
B.Mus., Oberlin College; M.Mus., Manhattan School of Music

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B.Mus., Northwestern University; M.F.A., Carnegie-Mellon University

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R.N., White Plains Hospital School of Nursing; B.S.N., Ohio State University; M.A. in Nursing Ed., Columbia University; Ed.D. Rutgers University

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B.S., Millersville State College; M.A., University of Michigan; D.Ed., Temple University

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A.B., M.A., Miami University; Ph.D., University of Delaware

JOHN W. WEAVER (1973) *Professor of Mathematics*
B.A., Eastern Mennonite College; M.A., University of Delaware; Ph.D., Johns Hopkins University

RICHARD J. WEBSTER (1967) *Professor of History*
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SUSAN W. WEBSTER (1967) *Assistant Professor of Biology*
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ROBERT H. WEISS (1967) *Professor of English*
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B.S., West Chester State College; Ed.M., Temple University; Ed.D., Columbia University

THEODORA L. WEST (1963) *Professor of English*
B.A., University of Akron; M.A., Ohio State University; Ph.D., University of Pittsburgh

LINWOOD J. WHITE (1968) *Associate Professor of Art*
B.F.A., Maryland Institute College of Art; M.F.A., University of Pennsylvania

W. BENJAMIN WHITTEN (1959) *Associate Professor of Keyboard Music*
B.Mus., M.Mus., Peabody Conservatory of Music

PAUL R. WIDICK (1967) *Professor of Earth Sciences*
B.A., M.Ed., Wayne State University; M.A., Eastern Michigan University; Ed.D., Temple University

MARK F. WIENER (1965) *Assistant Professor of Mathematics*
B.S., West Chester State College; A.M., University of Illinois

HARRY WILKINSON (1948) *Chairperson, Department of Music Theory and Composition; Professor*
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LLOYD C. WILKINSON (1960) *Associate Professor of Physical Education*
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B.Mus., Western Michigan University; M.A., Columbia University; Fulbright Scholar (Germany 1953-1955)

THOMAS B. WILLIAMS (1961) *Professor of Secondary Education and Educational Psychology*
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A.B., Elizabethtown College; M.Ed., Ed.D., Temple University

ELSIE B. ZIEGLER (1965) *Professor of English*
B.S., Elizabethtown College, M.S.L.S., Villanova University; Ed.D., Temple University

CORNELIA H. ZIMMERMAN (1977) *Associate Professor of Early Childhood, Elementary Education, and Reading*
B.S., Kutztown State College; M.Ed., Ed.D., Lehigh University

MARTIN ZLOTOWSKI (1973) *Associate Professor of Special Education*
A.B., New York University; M.A., Ph.D., Michigan State University

DISTINGUISHED FACULTY AWARDS

TEACHING		SERVICE
	1974-1975	
THOMAS EGAN E. RILEY HOLMAN MICHAEL A. PEICH		
	1975-1976	
GEORGE W. MAXIM PHILIP D. SMITH, JR. WILLIAM TOROP		WALTER E. BUECHELE, JR. CARMELA L. CINQUINA PHILIP B. DONLEY EDWARD N. NORRIS
	1976-1977	
IRENE G. SHUR		ROBERT E. BYTNAR ANDREW E. DINNIMAN RUSSELL L. STURZEBECKER
	1977-1978	
GEORGE F. REED RICHARD I. WOODRUFF		MARC L. DURAND* ROBERT F. FOERY* BERNARD S. OLDSEY *Joint Project
	1978-1979	
JOHN J. TURNER, JR. C. RALPH VERNO		ROBERT E. CARLSON ROBERT H. WEISS
	1979-1980	
CAROLYN B. KEEFE JOHN A. MANGRAVITE		PHILIP D. SMITH NORBERT C. SOLDON

EMERITI

HAROLD W. BENDA, *Dean of Education Emeritus*
BERNICE BERNATZ, *Dean of Women Emerita*
JOHN W. CLOKEY, *Dean of Arts and Letters Emeritus*
W. GLENN KILLINGER, *Dean of Men Emeritus*
LLOYD C. MITCHELL, *Dean of Music Emeritus*
KENNETH C. SLAGLE, *Dean of Arts and Sciences Emeritus*

ELEANOR ASHKENAZ, *Chemistry*
DOROTHY D. BAILEY, *English*
MARY M. BLISS, *Biology*
FAYE A. COLLICOTT, *Librarian*
GERALDINE C. CONBEER, *Librarian*
EDWIN B. COTTRELL, *Health and Physical Education*
GEORGE CRESSMAN, *Education*
KATHERINE M. DENWORTH, *Education*
MARK M. EVANS, *Director of Student Teaching*
MARION FARNHAM, *Art*
RUTH FELDMAN, *Psychology*
CHARLOTTE M. GOOD, *Education*
ROBERT B. GORDON, *Sciences*
MIRIAM S. GOTTLIEB, *Music*
THELMA J. GREENWOOD, *Biology*
H. THEODORE HALLMAN, *Art*
CARRIE C. KULP, *Education*
MURIEL LEACH, *Health and Physical Education*
JACK A. OWENS, *Health and Physical Education*
B. PAUL ROSS, *Education*
W. CLYDE SKILLEN, *Biology*
S. ELIZABETH TYSON, *English*
EARLE C. WATERS, *Health and Physical Education*

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Communications Directory

MAILING ADDRESS:	West Chester State College, West Chester, Pa. 19380
TELEPHONES:	Dial 436 plus number in parenthesis. For offices not shown here, call the College Switchboard: 436-1000. Area Code: 215.
Academic Advising	Director for Academic Advising, Learning and Research Center (3505)
Admissions/Catalogs	Director of Admissions, 110 West Rosedale Avenue (3411)
Affirmative Action	Special Assistant to the President and Director of Affirmative Action, Philips Memorial Hall (2433)
Book Store	Intracollegiate Governmental Association, Sykes College Union Building (2242)
Business/Financial Matters	Financial Management Division, Reynolds Hall (2211)
Careers/Placement	Director of Career Development Center, Lawrence Center (2501)
Continuing Education	Director, Adult and Continuing Education, Learning and Research Center (2833) Coordinator, Evening Division, Learning and Research Center (2811)
Counseling Center	Student Affairs, Lawrence Center (2301)
Cultural Affairs and College Events	Program Board, Sykes College Union Building (2983)
Financial Aid/ Work Study	Director of Financial Aid to Students, Lawrence Center (2627)
Graduate Studies/ Catalogs	Dean of Graduate and Continuing Studies, Learning and Research Center (2943)
Higher Education Opportunity Program, Act 101	Director of Academic Development Program, FHG Library—Phase I (2600)
Housing	Student Development Office, Sykes College Union Building (3305)
IGA Business Office	Intracollegiate Governmental Association, Sykes College Union Building (2955)
Public Relations	Director of Public Relations and College Information, 304 Smith House (3383)
Scheduling/Registration	Director of Academic Services, Learning and Research Center (3541)
Student Accounts	Student Accounts Office, Learning and Research Center (2552)
Summer Sessions	Director of Summer Sessions, Learning and Research Center (2230)
Undergraduate Academic Matters	Dean of Academic Services and Special Programs, Learning and Research Center (3518)

West Chester
STATE COLLEGE
West Chester Pennsylvania • 19380

SUMMER SESSIONS 1982

Undergraduate Courses

Summer at West Chester . . .

West Chester State College operates on a calendar different from—and considered by many, more convenient than—that of most other colleges and universities. The 12-week summer program is divided into three sessions of three, six, and three weeks designated as the Pre, Regular, and Post Sessions, respectively. This arrangement enables students to plan their course loads more efficiently with those who wish to take only one course often able to complete it in just three weeks while others who desire two courses can usually finish them in six weeks. Students who want to attend for the entire summer can earn a full twelve credits.

Why Choose West Chester?

In addition to the convenient schedule described above, West Chester State College offers many other advantages. Situated in the picturesque rolling hills of Chester County just an hour's drive or train ride from center city Philadelphia, West Chester's location is ideal for both Delaware Valley residents and those from farther away who are looking for a pleasant and exciting place to spend the summer while earning college credit.

The wide variety of programs offered, taught by the same fine faculty who have helped to build West Chester's excellent reputation in many fields, will appeal to almost any interest. Course offerings range from solid, career-oriented subjects such as accounting and computer science to those that can be taken primarily for fun such as tennis and sailing. Many programs are specifically geared to the intensive experience that is possible only during the concentrated summer period.

As one of the institutions of higher learning owned and operated by the Commonwealth of Pennsylvania, West Chester is able to offer its summer students top quality programs at very reasonable prices. And during the summer, the same low fees are charged to both in-state and out-of-stage students.

Appealing location . . . top quality programs . . . reasonable cost . . . West Chester State College has a lot to offer its summer students.

About the College

During the regular academic year, West Chester State College enrolls some 6,000 students in its full-time undergraduate programs. Another 1,500 are enrolled part-time at the undergraduate level and 1,200 at the graduate level. Available to these students are a variety of associate's, bachelor's, and master's degree programs as well as certificate and certification programs in a total of over 75 different areas of study. The 33 academic departments offering these programs are staffed by approximately 500 faculty members. Offerings are constantly being evaluated with new courses and new programs developed as required to meet changing needs.

A Look at West Chester and the Surrounding Area

Chester County, of which West Chester is the county seat, is both one of the three oldest counties in Pennsylvania and the most rapidly developing area in the Delaware Valley. The county is currently celebrating its tricentennial, and the many historical features can be both educational and entertaining.

A growing community of about 20,000, the Borough of West Chester offers attractive shops, pleasant restaurants, current entertainment, and comfortable accommodations to both its resident population and West Chester State College students. Among the pleasant discoveries that an explorer along the town's tree-shaded, brick-paved sidewalks can make are a number of attractive structures designed by architect Thomas U. Walter, the homes of composer Samuel Barber and artist Horace Pippin, and some unusual biological specimens.

Going a bit further afield, one can picnic at the Brandywine Battlefield or quaint St. Peter's Village, explore the beauty of nature at Longwood Gardens, or be impressed by the stunning beauty of the works on exhibit at the Brandywine River Museum featuring three generations of Wyeths.

Should one suddenly be seized with the urge for more nightlife and excitement than West Chester can offer, the thrills of New York City, Washington D.C., and Atlantic City are all within three hours travel time, and Philadelphia is but one hour away.

Campus Facilities

West Chester State College's 385 acre campus is both pleasant and highly functional. High-rise dormitories are clustered around dining, recreational, and other student service facilities. Modern classrooms and laboratories (many of them air conditioned!), the library, and the computer center are all just a short walk away.

Transportation . . .

West Chester State College is accessible both by car and by public transportation.

Public transportation is available both by bus and train. SEPTA's Red Arrow division operates a bus from downtown West Chester (about six blocks from the college) into the 69th Street Terminal in Philadelphia where connections are possible with many other SEPTA lines. Train service is available into Media, Pa., and from there into Philadelphia's 30th Street and Suburban (Penn Center) Stations. In addition, the Reeder Line provides bus service to Exton, Coatesville and Delaware. All of the above (except Red Arrow Division) operate on fairly limited schedules so it would be wise to get additional information before planning to use them on a regular basis. The West Chester State College Office of Off-Campus Life, located in Sykes College Union Building, acts as a public transportation information center by providing schedules for all public transportation serving West Chester.

Car routes into West Chester include 100, 322, 52 and 202. The college is near the Pennsylvania Turnpike, Route 1 and Interstate 95. See the area map on the back cover for details.

Carpooling is the sensible alternative to both single driving and public transportation for many commuters. The Off-Campus Student Association has designed a carpooling system for West Chester State College students and will have a **carpooling table** set up at each summer registration.

GENERAL INFORMATION

Housing . . .

Housing on campus is available to summer students. Dormitories are well-appointed with lounge areas, recreation rooms and laundry facilities. They are conveniently located near both Lawrence Center, which houses the dining rooms, post office and snack bar, and Sykes College Union with its many student services.

To apply for summer housing write to

Director of Housing
206 Sykes College Union Building
West Chester State College
West Chester, Pa. 19380

This written application must be received **at least one week** prior to the beginning of the session for which housing is required.

Student Services . . .

Summer students at West Chester State College have available the same full range of services provided during the academic year.

The Career Development Center, which provides **career planning and placement** services, is located on the second floor of Lawrence Center. For more information, call 436-2501.

The Counseling Center, staffed by licensed psychologists, offer **individual counseling for personal problem solving** and other counseling services on a confidential basis. Come to second floor Lawrence Center or call 436-2301.

Financial aid is available to summer students in the form of work-study employment, student loans and student grants. Come to second floor Lawrence Center or call 436-2627.

The **Student Health Service** provides first-aid and routine treatment of minor illnesses. Located in Reynolds Hall, the office is open seven days a week from 8:00 a.m. to midnight. Summer students may take advantage of a group accident and health policy, approved by the college, which covers them for the 12 weeks of summer sessions. See the Health Service.

Recreational Services provides organized recreational activities for summer students as well as offering rental and loan of equipment for student use. There are trips scheduled to concerts, area points of interest and professional baseball games as well as on-campus activities such as intramural softball and volleyball. Campus facilities including the gymnasiums, pool and tennis courts are open for informal recreational use. For additional information, call 436-2133.

Credits

During summer sessions credits are usually earned at the rate of one semester hour of credit for each week of class. A student who attends all three sessions may earn 12 credits.

West Chester State College students wishing to carry more than six semester hours during Regular Session must obtain permission from their advisor. Students from other colleges must have permission from the school to which they plan to transfer the credits.

Summer School Overload Policy

The normal student load for summer sessions is 3 hours for pre-session, 6 hours for regular session, and 3 hours for post-session. Any exceptions to this rule must be approved by the chairperson of the department in which the student is majoring.

A student will not be allowed to enroll in more than 15 hours in any one summer nor be allowed to carry more than one additional course per session. A student should not seek permission to carry an overload if his cumulative average is below 2.75. Exceptional situations will be reviewed by the Dean of Academic Services.

Reinstatement to the College in the Fall Semester

West Chester State College students who have not attained the required cumulative index by the end of the spring semester may attend summer sessions in order to improve their averages. Those who have not attained the required cumulative index by the end of the sessions will incur academic dismissal. Those who achieve the required index will be notified by letter from the chairperson of the Academic Standards Committee. They must then apply for readmission.

Students should consult their departmental handbooks concerning minimum standards for retention. Those admitted or readmitted after June 1973 must consult the academic information seetion of the current Undergraduate Studies Catalog.

Withdrawal from the College

West Chester State College degree candidates who wish to withdraw from the college—that is, not return in the fall semester—should report to the Office of the Registrar.

Withdrawal from a Course

Withdrawal from a course must be initiated by the student. He or she must first inform the instructor of the intention to withdraw. Then the student must go to the Office of the Registrar in the Learning and Research Center to complete the procedure. If a student fails to follow this procedure in withdrawing from a course, he or she will receive a grade of F for the course.

Refer to "Fees and Expenses," page 6, for the withdrawal refund policy and procedure.

Academic Information

Course Changes

After the deadline dates for mail and in-person registration, the course change periods are:

Pre and Post Sessions: The first Monday after registration.

Regular Session: The first Monday and Tuesday after registration.

Go to the office of the Registrar.

Course changes may also be made before the scheduling deadline of a session in the Registrar's Office. See page 7.

Summer Graduation

Students who expect to graduate at the end of the summer sessions are urged to attend the spring commencement preceeding summer sessions. It is the student's responsibility to notify the Office of the Registrar in person of anticipated graduation and to see that his or her name, written as desired, is placed on the list of prospective graduates.

College Regulations and Policies

The same regulations for student procedure and conduct that are in effect during the academic year are also in effect during summer sessions. Deadlines are adjusted appropriately.

Academic policies may be found in the Undergraduate Studies Catalog.

Accreditation

West Chester State College is accredited by The Middle States Association of Colleges and Secondary Schools; The National Council for Accreditation of Teacher Education; The American Association for Health, Physical Education and Recreation; The National Association of Schools of Music; the Council on Social Work Education; and The American Chemical Society. West Chester State College is a member of the Council of Graduate Schools in the United States.

Pre Session Offerings

Monday, June 7— Friday, June 25

Unless noted otherwise, classes meet Monday through Friday.

— Accounting —

8:00 a.m.-12:00 Noon

ACC 201-21 Principles of Accounting I (3)
ACC 202-21 Principles of Accounting II (3)
ACC 303-21 Cost Accounting I (3)

— Anthropology and Sociology —

8:00 a.m.-12:00 Noon

*ANT 102-21 Introduction to Anthropology: Cultural (3)
ANT 344-21 Magic, Religion, and Witchcraft (3)
SOC 200-21 Introduction to Sociology (3)

6:30-10:00 p.m.

SOC 200-22 Introduction to Sociology (3) Monday through Thursday

— Art —

8:00-9:30 a.m., 10:30 a.m.-12 Noon

*ARH 101-21 Learning to Look (3)
*ART 105-21 Art Workshop (3)
ART 222-21 Beginning Sculpture (3)

4:00-8:00 p.m.

ART 251-21 Art in Elementary School (3)

5:00-9:00 p.m.

ART 231-21 Ceramics I (3)
ART 232-21 Ceramics II (3)
ART 331-21 Ceramics III (3)
ART 332-21 Ceramics Studio Problems (3)

— Biology —

8:00 a.m.-12:00 Noon

*BIO 100-21 Basic Biology (3) Including Lab 10:30 a.m. to 12:30 p.m.
BIO 209-21 Human Anatomy (4) Lab Monday through Thursday 1:00-3:00 p.m.
BIO 271-21 Wildlife Conservation (3)

— Business Administration —

8:00 a.m.-12:00 Noon

MGT 101-21 Introduction to Business (3)
MGT 301-21 Principles of Management (3)
MGT 408-21 Business and Society (3)
MKT 301-21 Principles of Marketing (3)
MKT 320-21 Sales Management (3)
BLA 201-21 American Legal System (3)

— Chemistry —

8:00-9:00 a.m.

CHE 321-21 Analytical Chemistry I (2) Six weeks—June 7 to July 16

8:00-10:00 a.m.

*CHE 103-21 General Chemistry I (3) Five weeks—June 7 to July 9

*CHE 102-21 Concepts of Chemistry (3)

9:00 a.m.-12:00 Noon

CHE 231-21 Organic Chemistry I (4) Four weeks—June 7 to July 2

10:00 a.m.-1:00 p.m.

CRL 321-21 Analytical Chemistry I Lab (3) Six weeks—June 7 to July 16

12:00 Noon-4:00 p.m.

CRL 103-21 General Chemistry I Lab (2) Five weeks—June 7 to July 9. Tuesday, Wednesday and Thursday

1:00-5:00 p.m.

CRL 232-21 Organic Chemistry I Lab (2) Five weeks—June 7 to July 9. Tuesday, Wednesday, and Thursday

5:00-8:30 p.m.

SCC 370-21 Science and Human Values (3) Monday through Thursday

TBA

CHE 410-21 Advanced Independent Study or Chemical Research (3) Majors Only; Permission of Instructor or Chairperson
CHE 450-21 Chemistry Internship (3) Majors Only; Permission of Instructor or Chairperson
CHE 450-22 Chemistry Internship (5) Majors Only; Permission of Instructor or Chairperson

— Childhood Studies and Reading —

8:00 a.m.-12:00 Noon

EDE 332-21 Teaching Social Studies in the Elementary School (3)

6:00-9:30 p.m.

ECE 405-21 Administration and Supervision of Early Childhood Programs (3)

— Communicative Disorders —

8:00 a.m.-12:00 Noon

SPP 101-21 Introduction to Communication Disorders (3) Permission of Chairperson

6:00-9:30 p.m.

SPP 469-21 Equipment Workshop (3) Monday through Thursday. Permission of Chairperson

— Counselor, Secondary, and Professional Education —

8:00 a.m.-12:00 Noon

EDF 100-21 School and Society (3)
EDP 250-21 Psychology of Learning and Development (3)
EDP 351-21 Evaluation and Measurement (3)
EDC 498-21 Shyness and Assertion Workshop (3) See Workshop Description

— Criminal Justice —

8:00 a.m.-12:00 Noon

CRJ 100-21 History and Philosophy of Law and Justice (3)
CRJ 250-21 Scientific Crime Detection (3)

6:00-9:30 p.m.

CRJ 312-21 White Collar Crime (3) Monday through Thursday

TBA

CRJ 490-21 Practicum (3)
CRJ 490-22 Practicum (3)
CRJ 490-23 Practicum (3)
CRJ 490-24 Practicum (3)
CRJ 490-25 Practicum (3)
CRJ 490-26 Practicum (3)
CRJ 490-27 Practicum (3)
CRJ 490-28 Practicum (3)
CRJ 490-29 Practicum (3)

— Economics —

8:00 a.m.-12:00 Noon

*ECO 101-21 Principles of Economics—Survey (3)
ECO 131-21 Principles of Economics I—Micro (3)
ECO 132-21 Principles of Economics II—Macro (3)
FIN 325-21 Corporation Finance (3)

6:00-9:30 p.m.

ECO 131-22 Principles of Economics—Micro (3)

— English —

8:00 a.m.-12:00 Noon

ENG 120-21 Effective Writing I (3)
LIT 165-21 Introduction to Literature (3)
LIT 295-21 Children's Literature (3)

6:30-10:00 p.m.

LIT 337-21 Literature of the Enlightenment (3) Monday through Thursday

— Ethnic Studies —

8:00 a.m.-12:00 Noon

SSC 480-21 Afro-Americans Today (3)

5:00-9:00 p.m.

SSC 480-22 People of Chester County (3) Monday through Thursday

— Foreign Languages —

8:00-9:30 a.m.

FRE 101-21 Elementary French (3) June 7 through July 9

*Meets General Education Requirements

EXPLANATION OF COURSE DESIGNATIONS

The courses in this catalog are identified in three parts: abbreviation, course number and section number.

Key to Section Numbers:

	Abr.	Num.	Sec.
Pre Session—20 series	**ART**	**101**	**21**
Regular Session—30 series	**ART**	**101**	**31**
Post Session—40 series	**ART**	**101**	**41**

Semester hours of credit are shown in parenthesis following course titles. Course descriptions are in the West Chester State College 1981-82 Undergraduate Studies Catalog. For additional information, consult the appropriate department.

FRE 201-21 Intermediate French I (3) June 7 through July 9
SPA 101-21 Elementary Spanish I (3) June 7 through July 9
SPA 201-21 Intermediate Spanish I (3) June 7 through July 9

TBA
FRE French Majors Program (3-6) See Workshops
GER German Majors Program (3-6) See Workshops
LAN Self-Instructional Language Program (3-6) See Workshops
LAT Latin Majors Program (3-6) See Workshops
RUS Russian Majors Program (3-6) See Workshops
SPA Spanish Majors Program (3-6) See Workshops

— Geography —
(See Government and Planning)

— Geology and Astronomy —

5:30-9:00 p.m.
ESS 323-21 General Geologic Field Studies of Southeast Pennsylvania (3) Monday through Thursday

6:00-9:30 p.m.
*ESS 101-21 Introduction to Geology (3) (Formerly Earth Science) Monday through Thursday. Lab Thursday
*ESS 111-21 Introduction to Astronomy (3) Monday through Thursday. Lab Thursday

TBA
ESS 480-21 Special Problems (1-3) Permission of Instructor or Chairperson

— Health —

8:00 a.m.-12:00 Noon
HEA 110-21

6:00-9:30 p.m.
HEA 304-21 Family Life and Sex Education (3)
HEA 410-21 Mental Health (3)

TBA
HEA 421-21 Public Health Internship (3)
HEA 456-21 Environmental Health Internship (3)
HEA 456-22 Environmental Health Internship (3)
HEA 457-21 Environmental Health Field Experience (3)
HEA 457-22 Environmental Health Field Experience (3)

— Government and Planning —

8:00 a.m.-12:00 Noon
GEO 103-21 Human Geography (3)
*PSC 100-21 American Government and Politics (3)
PSC 338-21 Introduction to Political Thought (3)

6:00-10:00 p.m.
*GEO 101-21 World Geography (3) Monday through Thursday

TBA
GEO 415-21 Internship in Geography (3)
PSC/412-21 Internship (3)
PAD 412-21 Internship (3)

— History —

8:00-9:30 a.m., 10:30 a.m.-12:00 Noon
*HIS 100-21 Mainstreams in History (3)
HIS 151-21 History of United States I (3)

6:00-9:30 p.m.
HIS 309-21 History of Middle East (3) Monday through Thursday

— Instructional Media —

8:00 a.m.-12:00 Noon
EDM 300-21 Introduction to Instructional Communications (3)

— Mathematical Sciences —

8:00 a.m.-12:00 Noon
MAT 101-21 Mathematics for Elementary Teachers I (3)
MAT 103-21 Introduction to Mathematics (3)
MAT 105-21 College Algebra and Trigonometry (3)
MAT 107-21 Calculus for Business I (3)
MAT 351-21 Teaching Mathematics in Elementary School (3)

8:00-9:40 a.m., 10:30 a.m.-12:10 p.m.
MAT 141-21 Calculus I (3)
MAT 161-21 Applied Calculus I (4)

6:00-9:30 p.m.
CSC 350-21 Computers in Education (BASIC) (3) Monday through Thursday

TBA
CSC 300-21 Cooperative Applications (4) With permission of Dr. Fabrey

— Music History —

8:00 a.m.-12:00 Noon
MUS 125-21 Perspectives Jazz (3)
MUS 221-21 Music in Western Civilization I (3)
MUS 222-21 Music in Western Civilization II (3)

— Philosophy —

8:00-9:30 a.m., 10:30 a.m.-12:00 Noon
*PHI 101-21 Introduction to Philosophy (3)
*PHI 180-21 Introduction to Ethics (3)

6:00-9:30 p.m.
*PHI 101-22 Introduction to Philosophy (3) Monday through Thursday

— Physical Education —

12:30-2:00 p.m.
PEA 106-21 Canoeing (1) Additional Fee Required
PEA 128-21 Tennis (1)

6:00-8:00 p.m.
PEA 112-21 Horsemanship (1) Additional Fee Required

6:00-9:30 p.m.
PED 353-21 Organization and Administration of Physical Education, Health and Athletics (3)
PED 355-21 Accident Causation and Prevention (3)
PED 361-21 Kinesiology (3)

TBA
PED 372-21 Wilderness Adventure (2) May 23-30. Additional fee. Prior Approval. See Professor Jones
PED 449-21 Learning on the Move (3)

Athletic Training Program—June 7 to August 6
PED 460-21 Therapeutics for Athletic Training (3)
PED 460-22 Therapeutics for Athletic Training (3)
PEL 460-21 Therapeutics for Athletic Training, Lab (2)
PEL 460-22 Therapeutics for Athletic Training, Lab (2)
PEL 460-23 Therapeutics for Athletic Training, Lab (2)
PED 461-21 Advanced Athletic Training I (3)
PED 461-22 Advanced Athletic Training I (3)
PEL 461-21 Advanced Athletic Training I (1)
PEL 461-22 Advanced Athletic Training I (1)
PEL 461-23 Advanced Athletic Training I (1)
PED 462-21 Advanced Athletic Training (3)
PED 462-22 Advanced Athletic Training II (3)

TBA
PED 473-21 Independent Study (1-3) Permission of Department
PED 491-21 Internship (3) Permission of Department

— Political Science —
(See Government and Planning)

— Psychology —

8:00 a.m.-12:00 Noon
*PSY 100-21 Introduction to Psychology (3)
PSY 354-21 Social Psychology (3)
PSY 465-21 Psychology of Women (3) Open to Graduate Students

4:00-7:00 p.m.
PSY 443-21 Psychology of Group Processes (3) June 7—July 9, Tuesday through Thursday

7:00-10:00 p.m.
PSY 445-21 Organizational Psychology (3) June 7 — July 9, Tuesday through Thursday.

— Special Education —

3:00-5:15 p.m.
EDA 301-21 Field Experience and Seminar: MH (3) Monday, Tuesday, Thursday. Field Work Required

— Speech Communication and Theatre —

8:00 a.m.-12:00 Noon
SPC 101-21 Speech Fundamentals (3)

6:30-10:30 p.m.
SPC 230-21 Business and Professional Speech (3) Monday through Thursday

TBA
SPC 399-21 Directed Studies Speech (3) Permission of Instructor
SPC 400-21 Internship (3) Permission of Instructor
THA 399-21 Directed Studies Theatre (3) Permission of Instructor
THA 400-21 Internship (3) Permission of Instructor

*Meets General Education Requirements

Regular Session Offerings

Monday, June 28—Friday, August 6
Holiday—Monday July 5

Unless noted otherwise, classes meet Monday through Friday.

— Accounting —

8:00-9:30 a.m.
ACC 304-31 Cost Accounting II (3)

9:30-11:00 a.m.
ACC 202-31 Principles of Accounting II (3)
ACC 301-31 Intermediate Accounting I (3)
ACC 403-31 Federal Taxation I (3)

11:00 a.m.-12:30 p.m.
ACC 201-31 Principles of Accounting I (3)
ACC 405-31 Advanced Accounting (3)

6:00-9:30 p.m.
ACC 201-32 Principles of Accounting I (3) Monday and Wednesday
ACC 401-31 Auditing (3) Tuesday and Thursday

—Anthropology and Sociology—

8:00-9:30 a.m.
*ANT 102-31 Introduction to Anthropology: Cultural (3)
*SOC 200-31 Introduction to Sociology (3)
SOC 240-31 Sociology of the Family (3)

9:30-11:00 a.m.
*ANT 103-31 Introduction to Anthropology: Archaeology (3)
ANT 345-31 Culture and Personality (3)
*SOC 200-32 Introduction to Sociology (3)
SOC 344-31 Sociology of Religion (3)
SOC 353-31 Juvenile Delinquency (3)

11:00-12:30 p.m.
SOC 362-31 Sexuality in Society (3)

TBA
ANT 113-31 Archaeological Field Techniques (3)
ANT 280-31 Practicum in Museum Techniques (3)
ANT 360-31 Historical Archaeology (3)
ANT 410-31 Independent Studies in Anthropology: Archaeological Research (1-3)

— Art —

8:00-9:30 a.m.
*ARH 102-31 Art History Survey (3)
*ARH 101-31 Learning to Look (3)
ART 231-31 Ceramics I (3) Ceramics Workshop
ART 232-31 Ceramics II (3) Ceramics Workshop
ART 331-31 Ceramics III (3) Ceramics Workshop
ART 332-31 Ceramics Studio Problems (3) Ceramics Workshop

9:30-11:00 a.m.
*ART 105-31 Art Workshop (3)
ART 106-31 Beginning Drawing (3) Drawing Workshop
ART 206-31 Drawing II (3) Drawing Workshop
ART 306-31 Drawing III (3) Drawing Workshop
ART 413-31 American Art (3) Tricentennial Studies
ART 416-31 American Architecture (3) Tricentennial Studies

11:00 a.m.-12:30 p.m.
ART 216-31 Beginning Painting (3) Painting Workshop
ART 217-31 Intermediate Painting (3) Painting Workshop
ART 226-31 Watercolor I (3) Painting Workshop
ART 227-31 Watercolor II (3) Painting Workshop
ART 316-31 Advanced Painting (3) Painting Workshop
ART 317-31 Painting: Studio Problem (3) Painting Workshop
ART 266-31 Introduction to Crafts (3)
ART 347-31 Weaving I
ART 348-31 Weaving II (3)
ART 349-31 Weaving III (3)
ART 409-31 Weaving Independent (3)

— Biology —

8:00-9:30 a.m.
*BIO 100-31 Basic Biology (3) Lab Tuesday and Thursday 1:00-3:00 p.m.
BIO 203-31 Current Issues in Ecology (3)

9:30-11:00 a.m.
BIO 309-31 Human Physiology (4) Lab Monday and Wednesday, 1:30-3:30 p.m.

11:00 a.m.-12:30 p.m. Including Lab
*BIO 172-31 Field Ecology and Natural History (3) Lab Monday and Friday, 11:00 a.m.-12:30 p.m.

— Business Administration —

9:30-11:00 a.m.
BLA 202-31 Special Subjects in Business Law (3)
MGT 402-31 Organizational Behavior and Theory (3)
MKT 301-31 Principles of Marketing (3)
MKT 327-31 Marketing Management (3)

11:00 a.m.-12:30 p.m.
MKT 322-31 Advertising and Sales Promotion (3)
MKT 408-31 Marketing Research (3)

6:45-10:00 p.m.
BLA 201-31 Business Law (3) Monday and Wednesday
MGT 101-32 Introduction to Business (3) Monday and Wednesday
MGT 302-32 Human Resources Administration (3) Tuesday and Thursday
MGT 303-31 Production and Operations Management (3) Monday and Wednesday
MGT 405-31 Business Policy (3) Tuesday and Thursday
MKT 301-31 Principles of Marketing (3) Tuesday and Thursday

— Chemistry —

8:00-10:00 a.m.
CHE 104-31 General Chemistry II (3) July 12 to August 13. Continuation of CHE 103.
CHE 230-31 Fundamentals of Organic and Biochemistry (3) Monday through Thursday

9:00-11:00 a.m.
CHE 232-31 Organic Chemistry II (3) July 5 to August 6. Continuation of CHE 231
*CHE 100-31 Essentials of Chemistry (4)

12:00 Noon-4:00 p.m.
CRL 104-31 General Chemistry II Lab (2) July 12 to August 13. Continuation of CRL 103; Tuesday, Wednesday and Thursday

1:00-5:00 p.m.
CRL 233-31 Organic Chemistry II Lab (2) July 12 to August 6; Continuation of CRL 232; Monday through Thursday

TBA
CHE 410-31 Advanced Independent Study or Chemical Research. (3) Majors Only. Permission of Instructor or Chairperson.
CHE 410-32 Advanced Independent Study or Chemical Research (6) Majors Only. Permission of Instructor or Chairperson
CHE 450-31 Chemistry Internship (3) Majors Only; Permission of Instructor or Chairperson. Combined Course
CHE 450-32 Chemistry Internship (5) Majors Only; Permission of Instructor or Chairperson

— Childhood Studies and Reading —

8:00-9:30 a.m.
ECE 202-31 Preschool Learning Environment (3)
EDE 401-31 Creativity in the Classroom (3)

9:00 a.m.-12:00 Noon
EDE 312-31 Reading Instruction and Practicum (6)

9:30-11:00 a.m.
ECE 100-31 Orientation to Early Childhood
ECE 203-31 Field Experience—Three Years (3)
EDE 251-31 Child Development and Behavior (3)

11:00 a.m.-12:30 p.m.
ECE 204-31 Early Childhood Program (3)
EDE 406-31 Classroom Management (3)

— Communicative Disorders —

8:00-9:30 a.m.
SPP 106-31 Phonetics (3) Permission of Chairperson

9:30-11:00 a.m.
SPP 107-31 Speech and Language Development (3) Permission of Chairperson

TBA
SPP 352-31 Advanced Clinical Practicum (3) Permission of Chairperson
SPP 498-31 Workshop: Sign Language (3) Permission of Chairperson

— Counselor, Secondary, and Professional Education —

8:00-9:30 a.m.
EDP 250-31 Psychology of Learning and Development (3)

8:00 a.m.-12:00 Noon
EDO 411-31 Environmentel Education Workshop (3) June 28 through July 16. See Workshop Description

9:30-11:00 a.m.
EDC 498-31 Shyness and Assertion Workshop (3) See Workshop Description
EDF 100-31 School and Society (3)
EDP 249-31 Adolescent Development (3)

(Course Offerings Continued on Page 8)

*Meets General Education Requirements

Fees and Expenses

Special Notes:

- **The fees listed below reflect charges as of the Fall Semester, 1981 For up-to-date information, contact the Student Accounts Office, 215-436-2552.**
- **FEES ARE SUBJECT TO CHANGE WITHOUT NOTICE.**
- **All charges for a session must be paid by deadline payment dates or a late fee of $10.00 will be incurred.**
- **Unless specified otherwise, fees are paid by check or money order payable to: Commonwealth of Pennsylvania. Your check or money order serves as your receipt.**
- **IN-STATE AND OUT-OF-STATE SUMMER STUDENTS PAY THE SAME BASIC FEE. This common basic fee is applicable to summer sessions only.**

Basic Fee
$52.00 per semester hour of credit or equivalent charge of 0-credit courses.

Housing Fee
(Room and Meals)
Regular Session-$297.00
Pre or Post Session-$149.00
No reduction for absences of a few days.
Private rooms: $4.50 extra per week.
Charges for individual meals-
Breakfast-$1.35
Lunch-$2.15
Dinner-$2.70

Music Instruction Fee
(Regular Session)
Piano, Organ, Instrument or Voice, two half-hour lessons per week-$45

Pipe Organ for Practice
Regular Session-$12
Pre or Post Session-$6
No charge for piano for practice

Rental of Band or Orchestral Instruments
Regular Session-$6
Pre or Post Session-$3

Community Center Fee
All Students
Regular Session-$2
Pre or Post Session-$1

Late Fee
A $10.00 late fee is charged to all students (1) who fail to schedule prior to the scheduling deadline for a session and fail to pay by the designated deadline for the session (those who schedule on time but pay late.)

See the Summer Sessions Calendar for scheduling deadlines and late registration days.

Dishonored Check Fee
A fee of $25 is charged to accounts with a stopped payment check or check drawn for insufficient funds. The late registration fee of $10.00 also applies.

Refunds
All refund requests must be made in writing during the appropriate session. Contact the Office of the Registrar, Learning and Research Center.

Students who withdraw after registration and before attending the first scheduled class meeting are entitled to a refund of all but $10. Students who withdraw before one-third of the scheduled classes have met are entitled to apply for a refund of one-half of the basic fees charged. Students who withdraw after one-third of the scheduled classes have met are not entitled to a refund.

In cases of personal illness, certified by the attending physician, or for emergency reasons having trustees' approval, the college will refund the portion of basic fees covering the number of weeks remaining. All requests must be made in writing to the financial manager.

Withdrawal Procedure
Students who wish to withdraw after paying their summer session fees must follow the official withdrawal procedure. Procedure begins by completing the withdrawal forms in the Office of the Registrar, Learning and Research Center.

CALENDAR AND REGISTRATION INFORMATION—1982

NOTE:
Scheduling and payment begin April 19 and continue until the termination date given below for each session. *In-person* registration takes place in the Learning Research Center.

Students at *late registration/late payment* schedule according to the first letter of their last name. No student may register at other than the scheduled hour and date. However, another person may schedule and register for you. Late-registration takes place in Sykes Student Union.

PRE SESSION

Beginning of Scheduling Period	Monday, April 19
Deadline for Mail Registration	Friday, May 21
Deadline for In-person Registration and Payment	Friday, May 28
Late Registration (in-person only) in Sykes Student Union ($10.00 late fee)	Thursday, June 3
A through L	1:30 to 3:00 p.m.
M through Z	3:00 to 4:30 p.m.
A through Z	5:30 to 7:00 p.m.
Classes begin 8:00 a.m.	Monday, June 7
Classes end	Friday, June 25

REGULAR SESSION

Beginning of Scheduling Period	Monday, April 19
Deadline for Mail Registration	Friday, June 11
Deadline for In-person Registration and Payment	Friday, June 18
Late Registration (In-person only) in Sykes Student Union ($10.00 late fee)	Thursday, June 24
A through L	1:30 to 3:00 p.m.
M through Z	3:00 to 4:30 p.m.
A through Z	5:30 to 7:00 p.m.
Classes begin 8:00 a.m.	Monday, June 28
Holiday	Monday, July 5
Classes end	Friday, August 6

POST SESSION

Beginning of Scheduling Period	Monday, April 19
Deadline for Mail Registration	Friday, July 23
Deadline for In-person Registration and Payment	Friday, July 30
Late Registration (In-person only) in Sykes Student Union ($10.00 late fee)	Thursday, August 5
A through L	1:30 to 3:00 p.m.
M through Z	3:00 to 4:30 p.m.
Classes begin 8:00 a.m.	Monday, August 9
Classes end	Friday, August 27

TELEPHONES (AREA CODE 215)

Summer Sessions	436-2230
Registrar	436-3541
Graduate & Continuing Studies	436-2243

College offices are open Monday through Friday, 8:00 p.m. to 4:00 p.m.

APRIL

				1	2	3
4	5	6	7	8	9	10
11	12	13	14	15	16	17
18	19	20	21	22	23	24
25	26	27	28	29	30	

MAY

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2	3	4	5	6	7	8
9	10	11	12	13	14	15
16	17	18	19	20	21	22
23	24	25	26	27	28	29
30	31					

JUNE

		1	2	3	4	5
6	7	8	9	10	11	12
13	14	15	16	17	18	19
20	21	22	23	24	25	26
27	28	29	30			

JULY

				1	2	3
4	5	6	7	8	9	10
11	12	13	14	15	16	17
18	19	20	21	22	23	24
25	26	27	28	29	30	31

AUGUST

1	2	3	4	5	6	7
8	9	10	11	12	13	14
15	16	17	18	19	20	21
22	23	24	25	26	27	28
29	30	31				

HOW TO REGISTER

Enrollment for West Chester State College Summer Sessions is a simple process of scheduling and payment which can be completed by mail, or in person. By meeting the scheduling/payment deadlines given in the Summer Sessions Calendar, Page 1, a student may attend class by using a mailing process or performing an in-person registration process. Students may schedule for any or all three summer sessions at the same time by meeting the appropriate deadlines. The scheduling/registration process has been completed only when payment has been received by the College.

In-Person Registration

The scheduling and payment period begins in April and continues until the scheduling and payment deadlines for each session (see calendar). College offices are open 8:00 a.m.-12:00 noon and 1:00-4:00 p.m. daily. Students should allow at least 30 minutes to complete the scheduling process.
Completed forms and payment must be received in the Student Accounts Office prior to the deadlines or the student will be charged a late fee.

1. *Obtain a scheduling form.* If a scheduling information form (white card) is not attached to this catalog, get one from the Summer Sessions Office, Room 144, Learning and Research Center.
2. *Complete the scheduling form.* Students at other colleges and high school students must have the signature of an appropriate official.
3. Return the scheduling form to the *Registrar's Office* and obtain a bill. Pay the bill in the *Student's Accounts Office.* A bill payment confirmation form will be mailed to you the week prior to the beginning of classes.

NOTE
It is possible to change a course in the Registrar's Office before the appropriate scheduling *in-person* deadline for a particular session. After that, no course changes may be made until the first day of classes.

Late Registration

Late registration and payment take place in Sykes Student Union.

Mail Registration

To schedule by mail, call the Summer Sessions Office at 436-2230 and the Summer Sessions Office will forward the requested information. After returning the scheduling card to the Registrar's Office, you will receive a bill in the mail which should be returned with payment to the Student Accounts office (LRC 114) by mail or in person by the deadline dates of each session. REMEMBER—you will receive a bill payment *confirmation form* during the week prior to the beginning of classes for each respective session.

Course Changes

After the deadline dates for mail and in-person registration, the course change periods are:

Pre and Post Sessions: The first Monday after registration.

Regular Session: The first Monday and Tuesday after registration.

Go to the Office of the Registrar.

Course changes may also be made before the scheduling deadline of a session in the Registrar's Office.

Important Notes

- The times and days of classes are subject to change.
- Each summer session offering is contingent upon adequate enrollment in the judgement of college administration.
- The college reserves the right to change policies, procedures and requirements at any time.
- The catalog is not to be regarded as an irrevocable contract between the student and West Chester State College.
- Admission to a summer session does not imply admission for the academic year.
- Students may have other persons register for them.

NON-DISCRIMINATION POLICY
West Chester State College is committed to a policy of non-discrimination in compliance with all applicable federal and state statutes. Educational programs, activities and employment at the college are provided to individuals without regard to their marital status, race, color, national origin, sex, sexual orientation, age or religious creed. In addition, the college endeavors to remove any barriers and to provide opportunity for education and employment of handicapped persons. This policy of non-discrimination applies to all students, employees, applicants for admission and employment and all participants in college-sponsored activities. Inquiries regarding compliance with this policy may be directed to Ms. Teres Scott-Meyers, Director of Affirmative Action, Philips Memorial Hall, West Chester State College.

Regular Sessions — *Continued*

11:00 a.m.-12:30 p.m.

EDP 351-31 Evaluation and Measurement (3)

1:00-4:30 p.m.

EDF 498-31 Workshop on Economics Education (3) June 28-July 16. See Workshop Description

6:00-9:30 p.m.

EDP 250-31 Psychology of Learning and Development (3) Monday and Wednesday

EDF 100-32 School and Society (3) Tuesday and Thursday

— Criminal Justice —

6:00-9:30 p.m.

CRJ 340-31 Victimless Crimes (3) Monday and Wednesday

CRJ 470-31 Interpersonal Relations (3) Tuesday and Thursday

TBA

CRJ 490-31 Practicum (6)
CRJ 490-32 Practicum (6)
CRJ 490-33 Practicum (6)
CRJ 490-34 Practicum (6)
CRJ 490-35 Practicum (6)
CRJ 490-36 Practicum (6)
CRJ 490-37 Practicum (6)
CRJ 490-38 Practicum (6)
CRJ 490-39 Practicum (6)

— Economics —

8:00-9:30 a.m.

*ECO 101-31 Principles Economics—Survey (3)

ECO 132-31 Principles Economics—Macro (3)

ECO 334-31 Labor Economics (3)

9:30-11:00 a.m.

ECO 335-31 Money and Banking (3)

11:00 a.m.-12:30 p.m.

ECO 131-31 Principles of Economics—Micro (3)

ECO 251-31 Quantitative Business Analysis I (3)

6:00-9:30 p.m.

ECO 131-32 Principles Economics—Micro (3) Tuesday and Thursday

ECO 132-32 Principles Economics—Macro (3)

FIN 325-31 Corporation Finance (3) Monday and Wednesday

FIN 344-31 Investments (3) Tuesday and Thursday

— English —

8:00-9:30 a.m.

*ENG 120-31 Effective Writing I (3)
*ENG 121-31 Effective Writing II (3)
*LIT 165-31 Introduction to Literature (3)
LIT 342-31 Victorian Literature (3)

9:30-11:00 a.m.

*ENG 121-32 Effective Writing II (3)
ENG 268-31 Business Communication (3)
ENG 330-31 English Phonology (3)
*LIT 165-31 Introduction to Literature (3)
LIT 364-31 Modern Irish Literature

11:00 a.m.-12:30 p.m.

ENG 000-31 Basic Writing (3)
*ENG 120-32 Effective Writing I (3)
*ENG 121-33 Effective Writing II (3)
ENG 230-31 Introduction to Linguistics (3)
LIT 400-31 Seminar: Hemingway/Faulkner (3)
LIT 335-31 Shakespeare I (3)

— Foreign Languages —

8:00-9:30 a.m.

FRE 102-31 Elementary French II (3) July 12 through August 13
GER 101-31 Elementary German I (3)
LAN 303-31 Teaching Second Language in Elementary Schools (3)
SPA 102-31 Elementary Spanish II (3) July 12 through August 13

9:30-11:00 a.m.

GER 102-31 Elementary German II (3)

11:00 a.m.-12:30 p.m.

FRE 202-31 Intermediate French II (3) July 12 through August 13
GER 201-31 Intermediate German I (3)
GER 202-31 Intermediate German II (3)
LAN 411-31 Independent Study (3) Puerto Rican Language and Culture
SPA 202-31 Intermediate Spanish II (3) July 12 through August 13

— Geography —
(See Government and Planning)

— Geology and Astronomy —

8:00-9:30 a.m.

*ESS 101-31 Introduction to Geology (3) Formerly Earth Science. Includes Lab

9:30-11:00 a.m.

ESS 230-31 Introduction to Oceanography (3)

SCE 310-31 Science for the Elementary Grades (3)

11:00 a.m.-12:30 p.m.

*ESS 111-31 Introduction to Astronomy (3) Includes Lab

ESS 201-31 Physical Geology (4) Lab 1—3 Monday and Wednesday

5:30-9:30 p.m.

SCE 310-32 Science for Elementary Grades (3) Tuesday and Thursday

6:00-9:30 p.m.

*ESS 101-32 Introduction to Geology (3) Monday and Wednesday. Formerly Earth Science. Includes Lab

*ESS 111-32 Introduction to Astronomy (3) Tuesday and Thursday. Includes Lab

TBA

ESS 480-31 Special Problems (1-3) Permission of Instructor or Chairperson

— Government and Planning —

8:00-9:30 a.m.

*GEO 101-31 World Geography (3)
GEO 200-31 Patterns of World Cultures (3)
*PSC 100-31 American Government and Politics (3)

9:30-11:00 a.m.

GEO 102-31 Physical Geography (3)
*PSC 100-32 American Government and Politics (3)
PAD 374-31 Municipal and Administrative Law (3)

6:00-10:00 p.m.

*GEO 101-32 World Geography (3) Monday and Wednesday
GEO 214-31 Introduction to Planning (3) Tuesday and Thursday
GEO 232-31 Environmentel Crises (3) Monday end Wednesday
GEO 303-31 Europe (3) Tuesday and Thursday
GEO 322-31 Land Development Controls (3) Monday end Wednesday

*PSC 100-33 American Government and Politics (3) Tuesday and Thursday
PSC 350-31 American Constitutional Law (3) Monday and Wednesday

TBA

GEO 415-31 Internship (6)
PSC 412-31 Internship (6)
PAD 412-31 Internship (6)

— Health —

8:00-9:30 a.m.

HEA 106-31 Contemporery Issues in Death and Dying (3)
HEA 202-31 Foundations of Health II (3)
HEA 303-31 Nutrition/Weight Control (3)

9:00 a.m.-4:00 p.m.

HEA 435-31 Health Workshop—Nutrition (3) June 28-July 2

9:30-11:00 a.m.

HEA 201-31 Foundations of Health I (3)
HEA 301-31 Health for Elementary Grades (3)
HEA 320-31 Positive Aspects of Aging (3)
HEA 341-31 Chronic/Communicable Diseases (3)

TBA

HEA 421-31 Public Health Internship (6)
HEA 435-32 Health Workshop (3)
HEA 435-33 Health Workshop (3)
HEA 456-31 Environmental Health Internship (6)
HEA 456-32 Environmental Health Internship (6)
HEA 457-31 Environmental Health Field Experience (6)
HEA 457-32 Environmental Health Field Experience (6)

— History —

9:30-11:00 a.m.

*HIS 100-31 Mainstreams in History (3)

11:00 a.m.-12:30 p.m.

HIS 152-31 History of United States II (3)

6:00-9:30 p.m.

*HIS 100-32 Mainstreams in History (3) Monday and Wednesday
HIS 351-31 Women In America (3) Tuesday and Thursday. With departmental approval, this course may be taken for graduate credit.

— Instructional Media —

8:00-9:30 a.m.

EDM 460-31 Basic Photography (3)

9:30-11:00 a.m.

EDM 300-31 Introduction to Instructional Communications (3)

— Mathematical Sciences —

8:00-9:30 a.m.

MAT 101-31 Mathematics for Elementary Teachers I (3)
MAT 102-31 Mathematics for Elementary Teachers II (3)
MAT 103-31 Introduction to Mathematics (3)
MAT 107-31 Calculus for Business I (3)
MAT 411-31 Modern Algebra I (3)
MAT 414-31 Theory of Numbers (3)
CSC 101-31 Introduction to Computers (3) Structured BASIC
CSC 115-31 Introduction to Computer Science with APL (3)

*Meets General Education Requirements

9:30-11:00 a.m.

MAT 105-31 College Algebra and Trigonometry (3)
MAT 108-31 Calculus for Business II (3)
MAT 121-31 Introduction to Statistics (3)
MAT 441-31 Advanced Calculus I (3)
CSC 101-32 Introduction to Computers (BASIC) (3)

11:00 a.m.-12:30 p.m.

MAT 000-31 Fundamentals of Algebra (3)
MAT 351-31 Teaching Mathematics in Elementary School (3)
CSC 141-31 Introduction to Computer Science (PASCAL) (3)

11:00 a.m.-12:45 p.m.

MAT 142-31 Calculus II (5)
MAT 162-31 Applied Calculus II (4)

6:00-9:30 p.m.

CSC 495-31 Topics: (Micro-Assembler for 6809) (3) Tuesday and Thursday

TBA

CSC 350-31 Computers in Education (BASIC) (3) Contact Dr. Kerrigan for time.
CSC 490-31 Independent Project in Computer Science (1-5) Permission of Dr. Fabrey.
CSC 499-31 Independent Study in Computer Science (1-4) Permission of Dr. Fabrey.

— Music —

Students desiring private instruction must register for three credits of music classes for each one credit of private instruction at the minor or major level.

All students who register for private instruction must have their summer session cards signed by Dr. Sullivan, Office A Swope Hall.

Education

9:00 a.m.-5:00 p.m.

MUE 433-31 Elementary Orff (3) *June 28-July 9

History

9:30-11:00 a.m.

MHL 121-31 Fine Arts Music (3)
MHL 426-31 History of Music Instruments (3)

11:00 a.m.-12:30 p.m.

MHL 342-31 Baroque Music (3)

12:30-2:00 p.m.

MHL 322-31 American Music (3)

Instrumental Music

9:30-11:00 a.m.

ICO 312-31 Instrumental Conducting II (2) July 19-August 6. Last Three Weeks.

11:00 a.m.-12:30 p.m.

INS 353-31 Woodwind Literature (3)
INS 354-31 Brass Literature (3)

12:30-2:00 p.m.

COR 311-31 Chamber Orchestra (1) July 19-August 6. Last Three Weeks. Permission of Instructor

2:15-3:30 p.m.

CBA 311-31 Concert Band (1) July 19-August 6. Last Three Weeks

Keyboard Music

12:30-2:00 p.m.

PIA 427-31 Piano Concerto (3)

Theory and Composition

8:00-9:30 a.m.

MTC 414-31 Musical Acoustics (3)

9:30-11:00 a.m.

MTC 112-31 Theory of Music I (3)
MTC 113-31 Theory of Music II (3)
MTC 212-31 Theory of Music III (3)
MTC 213-31 Theory of Music IV (3)

11:00 a.m.-12:30 p.m.

MTC 114-31 Aural Activities I (2)
MTC 115-31 Aural Activities II (2)
MTC 214-31 Aural Activities III (2)
MTC 215-31 Aural Activities IV (2)

Workshop dates flexible—check before registering.

Vocal-Choral

8:00-11:00 a.m.

VOC 426-31 Choral Repertoire (3) First Three Weeks

9:30-11:00 a.m.

VOC 312-31 Choral Conducting II (2) Second Three Weeks

12:30-2:00 p.m.

311-31 Masterworks Chorus (1) Second Three Weeks

— Nursing —

6:00-9:00 p.m.

NSG 214-31 Proseminar in Nursing Theories and Concepts (3) Tuesday and Thursday. Open only to Registered Nurses. Course offered pending CAPC approval.

— Philosophy —

8:00-9:30 a.m.

*PHI 101-31 Introduction to Philosophy (3)

9:30-11:00 a.m.

*PHI 101-32 Introduction to Philosophy (3)

6:00-9:30 p.m.

*PHI 101-33 Introduction to Philosophy (3) Tuesday and Thursday

— Physical Education —

8:00 a.m.-12:00 Noon

PED 470-31 Leadership in Recreational Outdoor Pursuits (3) Course also meets two Saturdays. Additional Fee. Prior Approval. See Professor Jones.

9:30-11:00 a.m.

PED 351-31 Evaluation in Health and Physical Education (3)
PED 456-31 Introduction to the Driving Tasks (3)

11:00 a.m.-12:30 p.m.

PEA 128-31 Tennis (1)
PED 356-31 Critical Problems Within the Highway Transportation System (3)

12:30-2:00 p.m.

PEA 105-31 Sailing (1) Additional Fee

TBA

PED 370-31 Camp Counseling (3)
PED 473-31 Independent Study (1-3) Permission of Department
PED 491-31 Internship (6) Permission of Department

— Physics —

8:00 a.m.-12:00 Noon

PHY 103-31 General Physics I (4) Meets June 28 through July 23. Includes Lab
PHY 104-31 General Physics II (4) Meets July 26 through August 20. Includes Lab

9:30-11:00 a.m.

*PHY 100-31 Elements of Physical Science (3)

— Political Science —
(See Government and Planning)

— Psychology —

8:00-9:30 a.m.

*PSY 100-31 Introduction to Psychology (3)
PSY 464-31 Physiological Psychology (3) Open to Graduate Students

9:30-11:00 a.m.

*PSY 100-32 Introduction to Psychology (3)
PSY 245-31 Research Methods and Statistics I (3)

11:00 a.m.-12:30 p.m.

*PSY 100-33 Introduction to Psychology (3)
PSY 375-31 Abnormal Psychology (3)

6:00-9:30 p.m.

*PSY 100-34 Introduction to Psychology (3) Monday and Wednesday
PSY 357-31 Theories of Personality (3) Monday and Wednesday
PSY 210-31 Developmental Psychology I (3) Tuesday and Thursday
PSY 270-31 Psychology of Adjustment (3) Tuesday and Thursday

TBA

PSY 441-31 Field Experience in Psychology I (3)
PSY 442-31 Field Experience in Psychology II (3)

— Social Work —

6:00-9:30 p.m.

SWO 521-31 Social Group Work with Women in Transition (3) Monday and Wednesday
SWO 522-31 Family Therapy in Social Work (3) Tuesday and Thursday

— Special Education —

8:00-9:30 a.m.

EDA 350-31 Curriculum and Methods. Handicapped Learners.

12:30-2:00 p.m.

EDA 302-31 Field Experience and Seminar: PH (3) Tuesday and Thursday. Field Work Required.

— Speech Communication and Theatre —

8:00-9:30 a.m.

SPC 101-31 Speech Fundamentals (3)

9:30-11:00 a.m.

SPC 117-31 Intro Radio/TV/Film (3)
SPC 217-31 Directing and Producing the Documentary TV Program (3)

11:00 a.m.-12:30 p.m.

SPC 415-31 General Semantics
THA 101-31 Introduction to the Theatre (3)

6:00-8:30 p.m.

THA 103-31 Beginning Acting (3) Tuesday through Thursday
THA 203-31 Intermediate Acting (3) Tuesday through Thursday
THA 303-31 Advanced Acting (3) Tuesday through Thursday

7:00-9:30 p.m.

SPC 216-31 Small Group Communication (3) Tuesday through Thursday

TBA

SPC 399-31 Directed Studies Speech (3)
SPC 400-31 Internship (3 or 6)
THA 399-31 Directed Studies Theatre (3)
THA 400-31 Internship (3 or 6) High School Theatre Workshop (0) July 19 through August 6

*Meets General Education Requirements

Post Session Offerings

Monday August 9 through Friday August 27

Unless otherwise noted, classes meet Monday through Friday.

— Accounting —

8:00 a.m.-12:00 Noon

ACC 202-41 Principles of Accounting (3)
ACC 302-41 Intermediate Accounting II (3)

—Anthropology and Sociology—

8:00 a.m.-12:00 Noon

*ANT 102-41 Introduction to Anthropology: Cultural (3)
*SOC 200-41 Introduction to Sociology (3)
SOC 240-41 Sociology of the Family (3)

— Art —

8:00-9:30 a.m.; 10:30-12:00 Noon

ARH 101-41 Learning to Look (3)
*ARH 102-41 Art History Survey (3)

— Biology —

8:00 a.m.-12:00 Noon

*BIO 100-41 Basic Biology (3) Lab—10:30 a.m.-12:30 p.m.

— Business Administration —

8:00 a.m.-12:00 Noon

MGT 101-41 Principles of Marketing (3)
MGT 301-41 Principles of Management (3)
BLA 202-41 Special Subjects in Business Law (3)
MKT 301-41 Business and Society (3)

— Chemistry —

8:00 a.m.-12:00 Noon

*CHE 102-41 Concepts of Chemistry (3)

5:00-8:30 p.m.

CHE 436-41 Polymer Chemistry (3) Monday through Thursday

TBA

CHE 410-41 Advanced Independent Study or Chemical Research (3) Majors Only; Permission of Instructor or Chairperson
CHE 450-41 Chemistry Internship (3) Majors Only; Permission of Instructor or Chairperson

— Childhood Studies and Reading —

8:00 a.m.-12:00 Noon

EDE 481-41 Construction Teaching Materials (3)

— Counselor, Secondary, and Professional Education —

8:00 a.m.-12:00 Noon

EDP 351-41 Evaluation and Measurement (3)
EDO 498-41 Environmental Education in Alaska (3) See Workshop Description

— Criminal Justice —

6:00-9:30 p.m.

CRJ 200-41 The Criminal Process (3) Monday through Thursday

TBA

CRJ 490-41 Practicum (3)
CRJ 490-42 Practicum (3)
CRJ 490-43 Practicum (3)
CRJ 490-44 Practicum (3)
CRJ 490-45 Practicum (3)
CRJ 490-46 Practicum (3)
CRJ 490-47 Practicum (3)
CRJ 490-48 Practicum (3)
CRJ 490-49 Practicum (3)

— Economics —

8:00 a.m.-12:00 Noon

*ECO 101-41 Principles Economics—Survey (3)
ECO 132-41 Principles of Economics—Macro (3)
ECO 252-41 Quantitative Business Analysis II (3)

— English —

8:00 a.m.-12:00 Noon

*ENG 120-41 Effective Writing I (3)
*LIT 165-41 Introduction to Literature (3)
LIT 295-41 Children's Literature (3)

— Geography —

(See Government and Planning)

— Geology and Astronomy —

8:00 a.m.-12:00 Noon

*ESS 101-41 Introduction to Geology (3) Lab Friday (Formerly Earth Science)
IND 101-41 Unified Science (3) For Secondary School Teachers

TBA

ESS 391-41 Geology of the Southwestern National Parks (4) Permission of Instructor or Chairperson
ESS 480-41 Special Problems (1-3) Permission of Instructor or Chairperson

— Government and Planning —

8:00 a.m.-12:00 Noon

PAD 364-41 Elements of Public Administration (3)
*PSC 100-41 American Government and Politics (3)

6:00-10:00 p.m.

*GEO 101-41 World Geography (3) Monday through Thursday

TBA

GEO 415-41 Internship (3)
PSC/
PAD 412-41 Internship (3)

— Health —

9:00 a.m.-12:00 Noon

HEA 104-41 Human Sexuality (3)

TBA

HEA 421-41 Public Health Internship (3)
HEA 456-41 Environmental Health Internship (3)
HEA 456-42 Environmental Health Internship (3)
HEA 457-41 Environmental Health Field Experience (3)
HEA 457-42 Environmental Health Field Experience (3)

— History —

8:00-9:30 a.m., 10:30 a.m.-12:00 Noon

*HIS 100-41 Mainstreams in History (3)

— Mathematical Sciences —

8:00 a.m.-12:00 Noon

MAT 103-41 Introduction to Mathematics (3)
MAT 105-41 College Algebra and Trigonometry (3)
CSC 200-41 Cooperative Operations (3) Permission of Dr. Fabrey

— Music —

Music Education
8:00-11:00 a.m.

MUE 231-41 Music for the Classroom Teacher (3)

Music History
8:00 a.m.-12:00 Noon

MHL 121-41 Fine Arts Music (3)

Music Theory and Composition
9:00 a.m.-5:00 p.m.

MTC 416-41 Jazz Practices (2-3) August 16-20

— Philosophy —

8:00-9:30 a.m., 10:30-12:00 Noon

*PHI 101-41 Introduction to Philosophy (3)

— Physical Education —

8:00-11:30 a.m.

PED 352-41 Applied Physiology (3)

12:30-2:30 p.m.

PEA 128-41 Tennis (1)

TBA

PED 373-41 Wilderness Adventure III Canoeing (2) Additional Fee. July 30 through August 15. Permission of Instructor
PED 473-41 Independent Study (3) Permission of Department
PED 491-41 Internship (3) Permission of Department

— Political Science —

(See Government and Planning)

— Psychology —

8:00 a.m.-12:00 Noon

*PSY 100-41 Introduction to Psychology (3)
PSY 430-41 Human Sexual Behavior (3) Open to Graduate Students

— Speech Communication and Theatre —

TBA

SPC 399-41 Directed Studies Speech (3)
SPC 400-41 Internship (3)
THA 399-41 Directed Studies Theatre (3)
THA 400-41 Internship (3)

*Meets General Education Requirements

Summer Workshops & Other Special Offerings

Education

Workshop on Economics Education
EDF 498—3 Credits
June 28—July 16
This workshop is designed to provide an in-depth analysis of the structure, conduct and performance of the American economy for teachers of the social sciences in grades K-12. Its objectives are to enable faculty members to enrich their theoretical and practical understanding of the American economy and to integrate their knowledge of economics with their respective areas of specialization thereby enriching the curriculum. For further information, call or write Dr. Charles W. Good, West Chester State College, West Chester, Pa 19380. Phone (215) 436-2534

Environmental (Outdoor) Education Workshop
EDO 411—3 Credits
June 28—July 16
A field-centered learning experience, the workshop includes camping trips and field investigation. Staff from the Pennsylvania Fish Commission and the Pennsylvania Game Commission take part in some of the field expeditions. This workshop has been designed to integrate the wide range of backgrounds and interests among participants. It may be taken for credit toward certification, credit for elective, or on an auditing basis. Some scholarships are available. For further information, call or write, Professor John Holingjak, Coordinator of Environmental Education, West Chester State College, West Chester, Pa. 19380. Phone (215) 436-2791.

Environmental Education in Alaska
EDO 498—3 Credits
Post Session
A field-centered learning experience, the workshop focuses on a study of the interaction of people with the environment encountered in a trip from Seattle to Anchorage, Alaska. Participants will fly from Philadelphia to Seattle, take the Alaskan ferryliner from Seattle through the inland passageway to Haines, Alaska. One night will be spent camping and studying the environment around each of the following Alaskan ports: Ketchikan, Wrangell, Petersburg, Sitka, Juneau, and Haines. The group will travel from Haines to Anchorage by bus and study the area around Anchorage before returning to Philadelphia. Topics of study to be included will be the interaction of people with the climate, economics, geography, plants, and animals of the areas in southwestern Alaska. The workshop has been designed to integrate the wide range of backgrounds and interests among participants. It may be taken for credit toward certification, as an elective, or on an auditing basis. For further information, call or write Professor John Holingjak, Jr., Coordinator of Environmental Education, West Chester State College, West Chester, Pa. 19380. Phone (215) 436-2958 or 436-2791.

Shyness and Assertion Workshop
EDC 498—3 Credits
Pre and Regular Sessions
Designed for adult men and women who are interested in learning more effective and satisfying ways of responding to life situations, this workshop will present new behavioral assertion principles and techniques. For more information write or call Professor William J. Rahn, West Chester State College, West Chester, Pa. 19380. Phone (215) 436-2950 or 436-2660.

Ethnic Studies

Black Americans Today
SSC 480—3 Credits
Pre Session
This workshop will examine the political, economic, and social dimensions of the black experience in the United States in the 1980's. The course will begin with a brief review of Afro-American history and the Civil Rights Movement. For additional information, call or write Dr. Andrew Dinniman, Institute for Ethnic Studies, West Chester State College, West Chester, Pa. 19380. Telephone (215) 436-2834

Peoples of Chester County
SSC 480—3 Credits
Pre Session
This workshop will focus on the various ethnic peoples that live in Chester County. These ethnic groups will be looked at from a historical, cultural, and contemporary perspective. For additional information, call or write Dr. Irene Shur, Department of History, West Chester State College, West Chester, Pa. 19380. Telephone (215) 436-2972.

Foreign Languages

Self-Instructional Language Program
3—6 Credits
June—July
During the summer sessions students may learn conversational languages including Arabic, Chinese, Greek, Hebrew, Japanese, and Portuguese, depending upon enrollment and staff at the college. Students participating in the program must register with Mr. Ronald L. Gougher, Department of Foreign Languages, West Chester State College, West Chester, Pa. 19380. For additional information, contact Mr. Gougher.

French Majors Program
3—6 Credits
June—July
Students must register with Dr. Alfred D. Roberts, Department of Foreign Languages.

German Majors Program
3—6 Credits
June—July
Students must register with Mr. Ronald L. Gougher, Department of Foreign Languages.

Latin Majors Program
3—6 Credits
June—July
Students must register with Mr. John Rosso, Department of Foreign Languages.

Russian Majors Program
3—6 Credits
June—July
Participants must register with Dr. Frederick Patton, Department of Foreign Languages.

Spanish Majors Program
3—6 Credits
June—July
Students must register with Dr. Ronald P. Lomardi, Department of Foreign Languages.

Students from other colleges and universities are welcome to apply for admission to any of the above majors programs. Participants may begin any time that can be arranged during June and complete work in July. Time spent and credits earned vary according to individual needs. For additional information on any of the programs, contact the faculty member named above for that particular program.

Health

Health Workshop—Nutrition
HEA 435—3 Credits
June 28—July 2
A comprehensive workshop on nutrition information and its application, this workshop will be offered in cooperation with the National Dairy Council. Of particular value to educators and health professionals, it will include presentations by nationally recognized nutrition experts.

Music

Jazz Workshop
MTC 416—2 or 3 Credits
August 16—20
Fee: $80 plus course fee, if taken for credit.
Nationally known jazz artists will offer classes in stage band direction, contemporary improvisation, arranging, and pedagogy of improvisation. The workshop is designed for anyone interested in the study of jazz, both instrumental and vocal, and will accommodate all age groups and all levels of ability. For more information, contact Dr. James Sullivan, School of Music, West Chester State College, West Chester, Pa. 19380. Telephone: (215) 436-2628 or 2739.

Marching Band Clinic
August 9—13
Fee: $50 plus room and board plus course fee if taken for credit.
The West Chester State College Marching Band Conference is a comprehensive clinic for the total marching band program. Foremost authorities in their fields of specialization offer instruction throughout the week to band directors, college, junior and senior high school students in separate clinics. This conference is considered one of the largest and most prestigious of its kind in the nation. For more information contact Dr. James Wells, Marching Band Director, School of Music, West Chester State College, West Chester, Pa. 19380. Telephone: (215) 436-2495.

Speech Communication & Theatre

High School Theatre Workshop
Non-credit
July 19—August 6
Students are admitted to this intensive, three-week hand-on experience in all phases of theatre by audition, portfolio, or recommendation. For additional information, call or write the Department of Speech Communication & Theatre, New Main 512, West Chester State College, West Chester, Pa. 19380. Telephone (215) 436-2500.

West Chester STATE COLLEGE

West Chester, Pennsylvania 19380

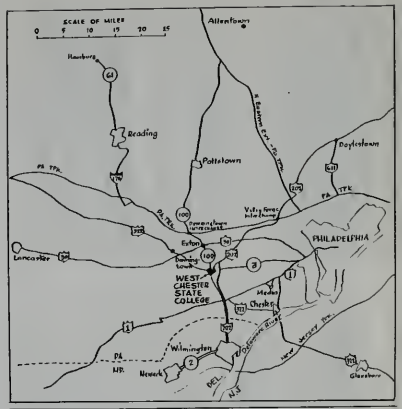
SUMMER SESSIONS 1982

UNDERGRADUATE COURSES

Office of Summer Sessions
West Chester State College
West Chester, PA 19380

Non-Profit Organization
U.S. POSTAGE PAID
West Chester, Pa. 19380
Permit No. 309

THIRD CLASS



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THIRD CLASS

West Chester
STATE COLLEGE
West Chester, Pennsylvania 19380